





ANNUAL REPORT

ON THE

HEALTH

OF THE

CITY OF SHEFFIELD

For the Year 1928.

FRED. E. WYNNE, B.A., M.B., B.Ch., D.P.H.,

Medical Officer of Health







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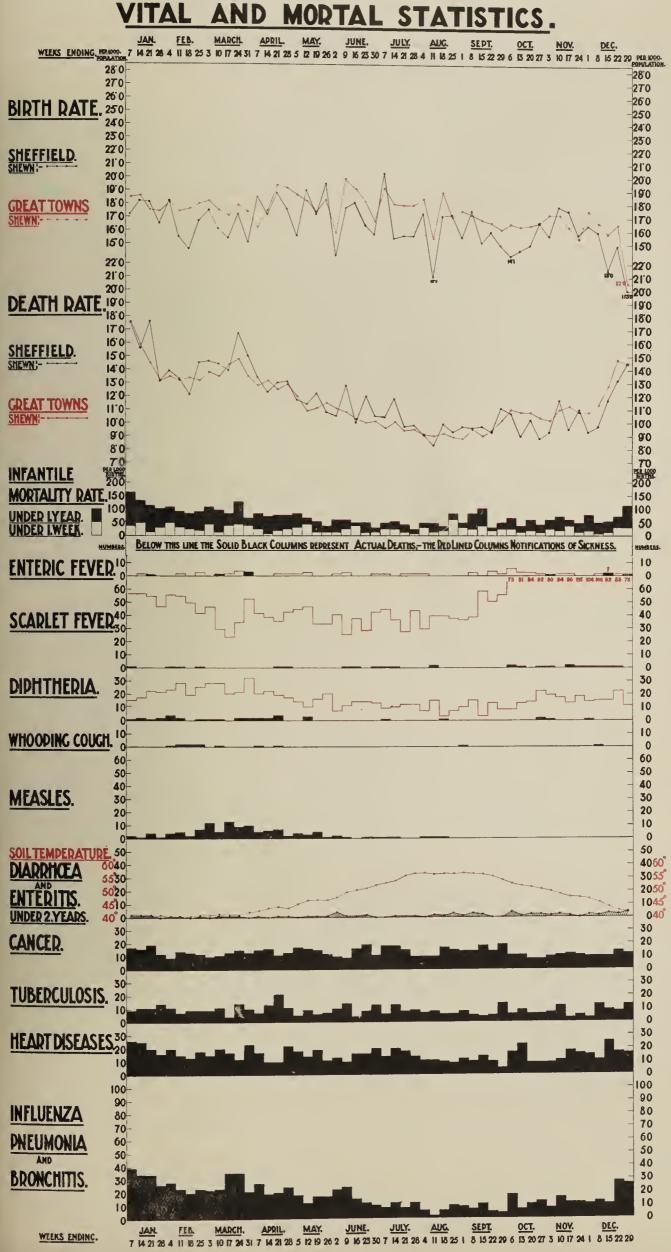
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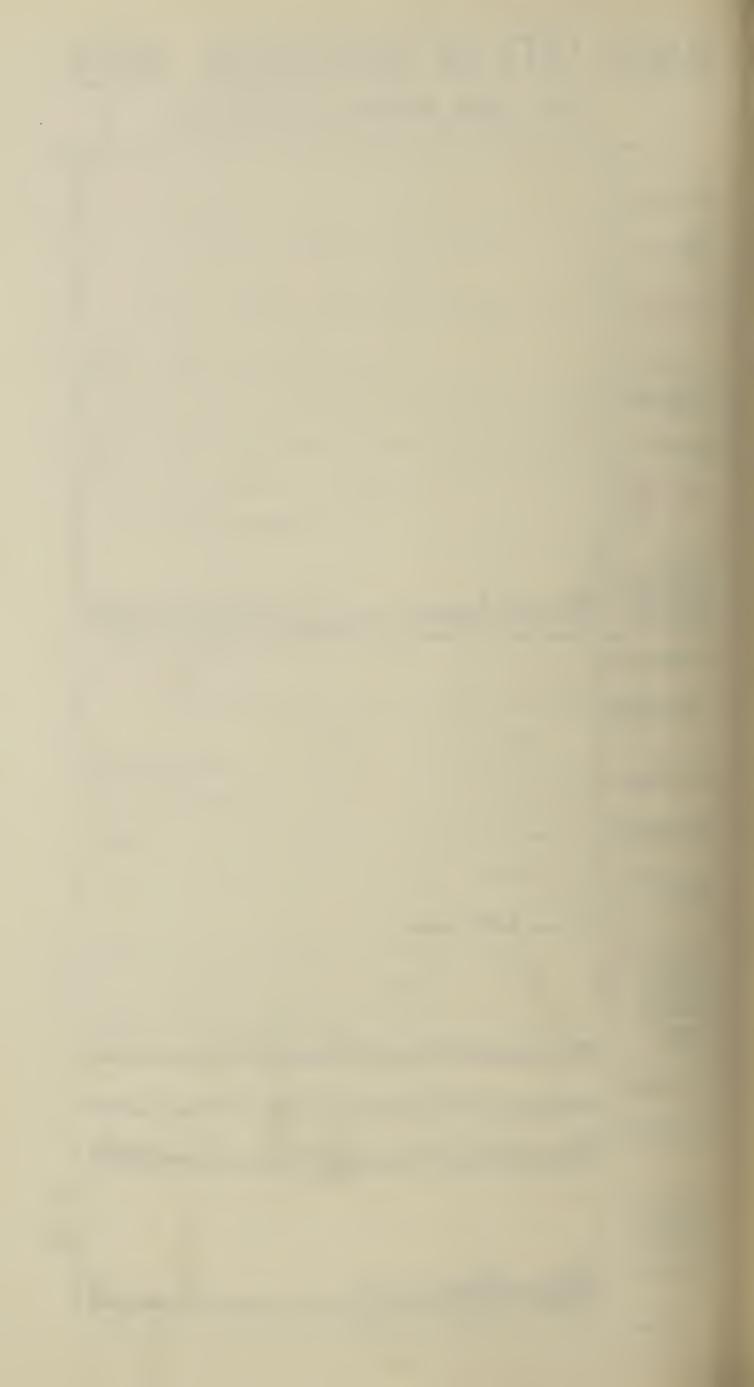
GENERAL STATISTICS.

Area (as extended November 9, 1921) 31,616 acres	
Population—1928 mean, as estimated by the Registrar General 515,40	
Number of Structurally Separate Dwellings at Census 1921 (area as extended)	
In Occupation	
Not in Occupation	
112,39	
Rateable Value (October, 1928)	
Sum represented by a Penny Rate (October, 1928) £9,87	
EXTRACTS FROM VITAL STATISTICS OF THE YEAR.	
Total Males Females	
Births (Legitimate) 8,145 4,153 3,992]	
,, (Illegitimate) 293 147 146 Birth Rate, 16	
from other causes 1	
Not in Occupation 2,170 — 112,398 Rateable Value (October, 1928) £2,620,155 Sum represented by a Penny Rate (October, 1928) £9,872	
Legitimate 71. Illegitimate 133. Total 7	
Deaths from Measles (all ages) 118	
,, Whooping Cough (all ages) 12	
,, Diarrhœa (under 2 years of age) 6	

1928. CITY OF SHEFFIELD. 1928.

MORTAL





Town Hall, Sheffield, August, 1929.

To the Chairman and Members of the Health Committee.

MR. CHAIRMAN, LADIES AND GENTLEMEN,

I have the honour to present herewith my Report on the Health of the City during 1928.

As will be seen from the figures embodied in this Report, the result of our work has been satisfactory and encouraging.

The General Death Rate was 11.8 as compared with 12.3 in 1927, and an average for the previous ten years of 13.1. The summer of the year under review was on the whole sunny and fine, and the increasing habit of out-of-door living and escape into the country during week-ends is undoubtedly having an important effect, not merely on Death-rates but on the actual health and vigour of people of both sexes who are living and taking part in the life and activities of their generation. There is an irreducible limit to the reduction in the Death-rate, which we are rapidly approaching. The remarkable decline in both Birth-rate and Death-date which we have witnessed during these "post-war" years, means that we have now a population of considerably greater average age than we had in the past.

This means that the rate of acceleration in the decline of the Death-rate must inevitably be reduced.

As the population grows older there may even be some progressive rise in the Death-rate in the coming years. This is a possibility that must be faced with equanimity by those responsible for the administration of matters relating to the Public Health. Except in the case of certain scheduled "notifiable infectious diseases," we have no accurate knowledge of the ineidence of disease generally on the population, or of what might be called the "Morbidity rate."

I believe, however, that this has been greatly reduced, and I am sure that some considerable share in this reduction may be claimed by the Health Committee as the direct result of their labours in the gradual removing of insanitary conditions and the improvement of the environment in which the majority of our fellow-citizens have to live.

The outstanding feature of the year under review was the passing into Law of the Sheffield Corporation Consolidation Act of 1928. This Act contains a number of "Sanitary" Sections, and Sections dealing with the public health, more or less directly, and all of these newly acquired powers were implemented before the close of the year, with the exception of the Sections dealing with the industrial and other "Tips," which give us power to make By-laws regulating this form of disposal of the residuum of what we regard as modern civilization. This is a problem of great complexity, and much recent scientific research and experiment has been carried out on the subject. Until this experimental work has been thoroughly explored it has been recognised that it would be inadvisable to commit ourselves to By-laws which might shortly become out-of-date.

Our new powers to compel the conversion of trough-closets and waste water-closets to civilised separate pedestal elosets, have been taken full advantage of, and I hope these remnants of a bygone conception of sanitation will soon have disappeared from our City as have the privy-middens which we inherited from Victorian times. As will be seen from the Sanitary sections of this Report, the work of replacement of the old insanitary "ash-pit" by Sanitary ash-bins is proceeding rapidly, and I have been able to satisfy myself that this gradual but steady progress in the cleaning up of the unclean portions of the City is having the expected effect in a general improvement, not only in the health but in the "morale" of the citizens. We have again a very large record of back-yards repaved, and I have repeatedly called attention to the importance of this work. The re-paving and cleansing of a back-yard or court is in my experience always an opportunity for the overworked housekeeper to put her house in order and prevent the introduction of unnecessary and avoidable dirt, and I know from the lips of many over-driven women what a help to them our present policy has been.

Our new powers in connection with the manufacture and distribution of certain food-stuffs such as ice-cream, potted and preserved meat, etc., have already been exercised, and the work done under this heading will be reported on fully in my Report for the current year.

I am,

Your obedient Servant,

FRED. E. WYNNE, B.A., M.B., B.Ch., D.P.H.,

Medical Officer of Health.

VITAL AND MORTAL STATISTICS.

Special Features.—The General Death Rate showed a satisfactory reduction as compared with the previous year. The mortality rate from Tuberculosis was also satisfactorily low. The mortality rate from Cancer was the highest on record, with the exception of 1927. The Infant Mortality rate was the lowest on record.

AREA.—The area of the City as extended 9th November, 1921, is 31,616 acres.

Population.—The Registrar General's estimate of the population of Sheffield at the middle of 1928 was 515,400. This figure shows a decrease on the previous year's estimate of 9,500, and is 3,839 below the adjusted Census figure of 519,239. The cut appears very drastic, and the Registrar General's explanation will be of interest. It is as follows:—

"The process of estimating local populations is primarily that of distributing the total population of England and Wales amongst the 1,800 odd Boroughs, Urban Districts and Rural Districts which together made up the whole country. The estimate for an individual area is not the product of an isolated enquiry limited in its scope to purely local indications; it is definitely related to the estimates of all the other constituent areas of the country, and must take into account population movements which are complementary and reciprocal as between the area in question and a large number of contiguous or adjacent areas. Each annual process of estimation involves, in a sense, a fresh review of the whole period which has elapsed since the previous census, advantage being taken of any new material which has come to light to promote the progressive correction of the figures. In the present instance, in view of the special purposes which the estimates are required to serve, special efforts have been made to review the whole period for the purpose of eliminating any imperfections in previous estimates."

With regard to the figures showing the distribution of population of Registration Sub-Districts and Sections, which appear in Table V., the estimates have been based upon the 1921 Census, with additions in respect of new houses erected in these areas since 1921, and a pro rata reduction to bring the total down to the new estimate of the Registrar General.

TABLE A.—Censuses 1911 and 1921. Percentage of each sex in quinquennial age groups.

	16	911	1921					
Ages	Percei	ntages	Percentages					
	Males	Females	Males	Females				
0- 4 5- 9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65-69 70-74 75-79 80-84 85-89 90-94 95 and over	$ \begin{array}{c} 12 \cdot 0 \\ 11 \cdot 0 \\ 10 \cdot 0 \\ 9 \cdot 2 \\ 8 \cdot 2 \\ 8 \cdot 7 \\ 8 \cdot 6 \\ 7 \cdot 9 \\ 6 \cdot 4 \\ 5 \cdot 2 \\ 4 \cdot 1 \\ 3 \cdot 2 \\ 2 \cdot 4 \\ 1 \cdot 6 \\ 0 \cdot 9 \\ 0 \cdot 4 \\ 0 \cdot 2 \\ 0 \cdot 0 \\ 0 \cdot 0 \\ 0 \cdot 0 \end{array} $	$\begin{array}{c} 11 \cdot 8 \\ 10 \cdot 7 \\ 9 \cdot 9 \\ 9 \cdot 4 \\ 8 \cdot 6 \\ 8 \cdot 8 \\ 8 \cdot 3 \\ 7 \cdot 4 \\ 6 \cdot 0 \\ 5 \cdot 0 \\ 4 \cdot 1 \\ 3 \cdot 2 \\ 2 \cdot 5 \\ 1 \cdot 9 \\ 1 \cdot 2 \\ 0 \cdot 6 \\ 0 \cdot 3 \\ 0 \cdot 1 \\ 0 \cdot 0 \\ 0 \cdot 0 \\ \end{array}$	$ \begin{array}{c} -10 \cdot 0 \\ -10 \cdot 1 \\ +10 \cdot 4 \\ + 9 \cdot 4 \\ - 8 \cdot 0 \\ - 7 \cdot 7 \\ - 7 \cdot 1 \\ - 7 \cdot 4 \\ + 7 \cdot 2 \\ + 6 \cdot 7 \\ + 5 \cdot 3 \\ + 4 \cdot 0 \\ + 2 \cdot 8 \\ + 2 \cdot 0 \\ + 1 \cdot 1 \\ + 0 \cdot 6 \\ = 0 \cdot 2 \\ = 0 \cdot 0 \\ = 0 \cdot 0 \\ = 0 \cdot 0 \end{array} $	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$				

The signs +, -, and = show the comparison with 1911 figures—higher, lower, or equal.

Sex and Age Distribution.—The preceding Table, which is based upon 1921 Census reports, is introduced in order to show the age and sex distribution of the population of the City and the change which took place during the 10 years between 1911 and 1921.

Marriages.—The marriage rate was 15.8, which was 0.1 lower than the rate for 1927. It was pointed out in the Annual Report for 1921 that for the first time on record the marriage rate was less in Sheffield than in England and Wales as a whole. The disparity was further accentuated in 1922, when the rate fell to 14.4 as compared with 15.7 for England and Wales. Sheffield's rate for 1922, moreover, was the lowest recorded for the City, whilst that for England had been lower than in 1922 in 17 of the 33 years shown in the Table. The rate for 1923 was the same for Sheffield as for England and Wales; in 1924-1926 it was slightly below that for England and Wales; in 1927 it was 0.2 higher; and in 1928 it was 0.5 higher than that for England and Wales.

Table III. gives marriages and rates for Sheffield and for England since 1890.

Births.—The number of births registered during the year was 8,586 and the transferable births numbered 71 inwards and 219 outwards. The number of births allocated to Sheffield, therefore, was 8,438, which was less than in the preceding year by 88. The annual birth rate was 16.4 per 1,000 persons living. The average rate for the previous ten years was 20.2. Owing to the doubt about accuracy of population estimates for the war years, the actual number of births is given in the following Table for the years 1918 onward, together with the birth rates:—

0110 1711 011	iacos.			
	Year	Births	Ra	te per 1,000
	1918	 10,746		20.6
	1919	 10,353		21.0
	1920	 13,130		26.6
	1921	 11,907		23.8
	1922	 10,804		20.7
	1923	 10,195		19.4
	1924	 9,712		18.5
	1925	 9,321	• • • • •	17.7
	1926	 9,013	• • • • •	17.2
	1927	 8,526		16.2
Average	1918-27	 10,387		20.2
	1928	 8,438		16.4

The birth-rate for 1928 is 3.8 lower than the average for the last decade, and with the exception of 1927 is the lowest ever recorded in Sheffield.

Deaths.—The number of deaths of Sheffield residents during the year was 6,099 (3,226 male, 2,873 female), making a death rate of 11.83 per 1,000 living, which is 0.43 below 1927. The average death rate for the decade 1918-1927 was 13.1. For the reason stated above, the actual number of deaths are given in the following Table in addition to the rate—

	Year		Deaths	Rate	per 1,000
	1918		9,732		20.9
	1919		$6,\!564$		13.9
	1920	•••••	6,622		13.4
	1921		6,284		12.5
	1922		6,097		11.7
	1923	•••••	6,012		11.5
	1924		6,110		11.6
	1925		6,078	• • • • •	11.5
	1926		5,927	• • • • •	11.3
	1927		6,436	• • • • •	12.3
Average	1918-27		6,586		13.1
	1928		6,099		11.8

A comparison of the death rate of Sheffield with that of England and Wales in quinquennia is given in the following Table. It will be noted that for the periods 1921-25

and 1926-28 Sheffield's rate was below that for England and Wales. The lower mortality in Sheffield from Diphtheria, Influenza and Cancer accounts for this to some extent.

Quinquennia	1			Me	ean Annı	ıal Mort	ality Rate
Periods				p	er 1,000 Sheffield	of the p	opulation
1871-1875				• • •	26.S		England 22.0
1876-1880				• • •	24.2		20.8
1881-1885					21.6		19.4
1886-1890			• • •		22.1		18.9
1891-1895	• • •		• • •		20.9		18.7
1896-1900	• • •			• • •	20.6		17.7
1901-1905		• • •	• • •		18.2		16.1
1906-1910					16.4		14.7
1911-1915	•••		• • •		15.9		14.3
1916-1920	•••				15.7		14.4
1921-1925	• • •				11.8		12.2
1926-1928	(3 yrs.)			• • •	11.8		11.9

SMALL-Pox.—There were 61 eases of Small-Pox notified during the year, all of whom recovered.

Measles.—The number of cases notified voluntarily during 1928 was 86, 43 of which were removed to the City Hospital, Lodge Moor.

The mortality rate for the year was 0.23, 0.19 higher than the rate for 1927. The average rate for the five years 1923-27 was 0.10 per annum.

SCARLET FEVER.—The death rate from Scarlet Fever was 0.05 per 1,000 of the population, which has to be compared with an average annual rate of 0.02 for the quinquennium 1923-27; and the attack rate was 5.45 per 1,000, as against 3.34 for the quinquennium 1923-1927.

DIPHTHERIA.—The death rate from Diphtheria was 0.07 per 1,000 of the population. This has to be compared with an average of 0.06 during the quinquennium 1923-1927. The attack rate during 1928 was 1.60 as compared with 1.65 for 1927 and 1.43 for the quinquennium 1923-27.

Whooping Cough.—The mortality from this disease was at the rate of 0.02 per 1,000 living. The average for the quinquennium 1923-1927 was 0.16.

Typhoid Fever.—The death rate from Typhoid Fever gradually declined from 0.09 in 1912 to 0.002 in 1919, and in 1920 not a single death was attributed to this disease. In 1921, however, there were six deaths, giving a rate of 0.012; in 1922, four deaths, giving a rate of 0.008; in 1923 eight, giving a rate of 0.015; in 1924 ten, giving a rate of 0.019; in 1925 eight, giving a rate of 0.015; in 1926 five, giving a rate of 0.010; in 1927 eleven, giving a rate of 0.021; and in 1928 ten, giving a rate of 0.019 per 1,000 living.

The number of typhoid cases notified during the year 1928 was 49, giving an attack rate of 0.095 per 1,000 living, which has to be compared with an average for the quinquennium 1923-27 of 0.083.

At one time we looked forward with absolute certainty to the increase of Typhoid Fever in the Autumn, but since 1914 there has been no autumnal increase in the prevalence of Typhoid Fever.

Diarrhæa and Enteritis, under Two Years of Age.—The death rate among infants under two from Diarrhæa and Enteritis during 1928 was 0.13 per 1,000 persons living. The death rates in recent years have been as follows:—0.13 in 1927, 0.24 in 1926, 0.16 in 1925, 0.17 in 1924, 0.24 in 1923, 0.15 in 1922, and 0.46 in 1921.

The great improvement in the prevalence of Diarrhœa can only be attributed to the greater attention given to Child Welfare, the activities of the Women Inspectors, especially their educational work, and the large substitution of Dried Milk for fluid milk; the measures taken for the prevention of fly breeding, and instructions to the public as to the danger of flies, the abolition of privy middens in the congested parts of the town, and the campaign against unpaved yards.

CEREBRO-SPINAL FEVER.—During the year there were five notified cases of Cerebro-Spinal Fever, with two deaths.

Acute Poliomyelitis.—Twelve cases of Acute Poliomyelitis or Polioencephalitis were notified as against 18 in 1927, 6 in 1926, 16 in 1925, 53 in 1924, one in 1923, and 20 in 1922. Two deaths were registered in 1928.

	Cases Notified										
	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	
Encephalitis Lethargica Pneumonia—Acute Primary	7	17	14	8	9	337	54	41	24	18	
and Acute Influenzal	830	1759	1275	2367	2832	3345	3219	2643	3154	2693	
Trench Fever	8		•••								
Dysentery	5	2	2	1	2	1	1			1	
Malaria	78	21	13	7	4	1	2	2	4	1	

TABLE B.—Diseases made notifiable during 1919.

All the notified cases of Trench Fever, Dysentery, and Malaria were contracted abroad, with the exception that in the case of two Malaria patients notified in 1923 there was an element of doubt; both, however, had served with H.M. Forces abroad.

ENCEPHALITIS LETHARGICA.—As mentioned in the 1924 report, that year was unfortunately noteworthy for a very severe outbreak of Encephalitis Lethargica. The first case was notified on January 14th, and the total number of notifications, in which the diagnosis was, as far as possible, confirmed, was 301. The number of deaths was 40, giving a fatality rate of 13 per cent. 54 cases were notified during 1925, and the deaths registered totalled 21, a fatality rate of 39 per cent. 41 cases were notified during 1926, and 18 deaths were registered, a fatality rate of 44 per cent. 24 cases were notified during 1927 and 19 deaths were registered, a fatality rate of 79 per cent.; and during 1928, 18 cases were notified and 10 deaths were registered, a fatality of 56 per cent.

INFLUENZA.—It will be remembered that the prevalence of Influenza was world-wide in 1918. All parts of the country have been visited by minor epidemics in each year since then. Below are set out the mortality rates per 1,000 living for the years 1918 onward in Sheffield and in the whole country.

1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928
Sheffield 4.55	1.10	0.86	0.47	0.23	0.51	0.35	0.23	0.24	0.48	0.17
England and Wales 3.13	1.22	0.28	0.24	0.56	0.22	0.49	0.33	0.23	0.57	0.19

PNEUMONIA.—It has been the practice since the beginning of 1922 until recently to draw the attention of the medical attendant to failure to notify whenever an unnotified case of Pneumonia has appeared in the death returns. This has resulted in practically every case of fatal Pneumonia being notified prior to death, and has made the incidence of Pneumonia in Sheffield apparently excessive as compared with other towns.

Every case notified and treated at home is visited by the Queen's nurses.

The percentage of cases removed to hospital during 1928 was 12.2.

The following table shows the number and the percentage of cases removed to the City Hospital in each year since 1919, when the disease was made compulsorily notifiable.—

TABLE C.—Pneumonia.—Cases notified removed to City Hospital, and percentage removed.

Years 1919 to 1928.

									1			
			1919	1920	1921	1922	1923	1924	1925	1926	1927	1928
Cases Notified	•••	•••	842	1759	1275	2367	2832	3347	3219	2643	3154	2693
Cases removed to Hospital	City	•••	196	518	526	343	452	578	562	466	357	328
Percentage of Cases	remov	ved	$23 \cdot 3$	29.4	41.3	14.5	16.0	17.3	17.5	17.6	11.3	12.2

Military cases are included in the above figures.

Particulars are given below with regard to mortality from Pneumonia in males and females during 1928 and the previous five years. These figures show that there is no real excess of pneumonia in the City although slightly higher than those for England.

TABLE D.—Pneumonia Mortality.

Year		Deaths	Rate	Rate per 1,000	
	Males	Females	Total	per 1,000	England and Wales
1923	317	217	534	1.02	0.87
1924	357	222	579	1.10	1.00
1925	347	236	583	1.11	0.95
1926	333	212	545	1.04	0.83
1927	410	255	665	$1 \cdot 27$	0.95
Average for 5 years	353	228	581	1.11	0.92
1928	334	205	539	1.05	

Bronchitis.—The mortality in the sexes during 1928 and the quinquennium 1923-27 is set out in the table below. The figures compare favourably with those for England.

TABLE E.—Bronchitis Mortality.

Year		Deaths	Rate per 1,000	Rate per 1,000	
	Males	Females	Total		England and Wales
1923 1924 1925 1926 1927 Average for 5 years 1928	$235 \\ 241 \\ 242 \\ 201 \\ 183 \\ 220 \\ 162$	220 239 207 157 217 208 124	455 480 449 358 400 428 286	0·87 0·91 0·85 0·68 0·76 0·81 0·56	0·85 0·97 0·91 0·77 0·84 0·87

CANCER.—The mortality from Cancer in the sexes during 1928 and the previous five years is set out below:—

TABLE F.—Cancer Mortality.

Year	Year Deaths							
	Males	Females	Totals	per 1,000				
1923 1924 1925 1926 1927 Average for 5 years 1928	296 339 361 316 392 341 337	325 314 336 306 336 323 369	621 653 697 622 728 664 706	$ \begin{array}{c} 1 \cdot 19 \\ 1 \cdot 24 \\ 1 \cdot 32 \\ 1 \cdot 19 \\ 1 \cdot 39 \\ 1 \cdot 26 \\ 1 \cdot 37 \end{array} $				

Tuberculous Diseases.—The death rate from Tuberculous Diseases declined steadily from 1901 to 1910, but during the next four years there was a setback in the decline; and during the years of the War there was a decided tendency to increase. There was again a marked decline in 1919, and the improvement has been maintained.

The death rates from all Tuberculous Diseases during 1928 and the previous 20 years were as follows :—

1908		•••	1.78	1915	•••	•••	1.78	1922	•••	•••	1.22
1909			$1 \cdot 57$	1916			$1 \cdot 73$	1923			$1 \cdot 03$
1910	•••		$1 \cdot 39$	1917	• • •	•••	$1 \cdot 82$	1924	•••	•••	$1 \cdot 02$
1911			$1 \cdot 59$	1918	•••	•••	1.84	1925		•••	0.99
1912		• • •	$1 \cdot 67$	1919	• • •	• • •	$1 \cdot 28$	1926		•••	0.93
1913		•••	$1 \cdot 64$	1920	•••	•••	$1 \cdot 19$	1927			0.89
1914			1.68	1921	• • •	•••	$1 \cdot 24$	1928		•••	0.94

The deaths from Tuberculosis of the Lung alone gave a rate of 0.75 per 1,000 living during 1928. The average for the quinquennium 1923-1927 was 0.78.

The following shows sex mortality during 1928 and the previous 10 years:—

TABLE G.—Tuberculosis Mortality in Sexes.

	Tuberculosis Deaths								
Year	Resp	iratory	Other	Forms	All I	Forms	Total Deaths		
	Males	Females	Males	Females	Males	Females			
1918	409	254	115	87	524	341	865		
1919	286	186	71	56	357	242	599		
1920	293	169	54	74	347	243	590		
1921	307	193	64	55	371	248	619		
1922	349	188	50	49	399	237	636		
1923	265	183	50	41	315	224	539		
1924	286	145	60	46	346	191	537		
1925	261	156	57	47	318	203	521		
1926	243	147	49	46	292	193	485		
1927	253	116	39	60	292	176	468		
1928	255	129	55	43	310	172	482		

The notifications of Tuberculosis of Lung since 1911, the year of opening the Tuberculosis Dispensary, were as follows:—

1911	• • •			836	cases.	192	0	• • •		1139	cases
1912	•••		• • •	981	,,	192		• • •		1255	"
1913	• • •	• • •		1033	,,	192	2	• • •	• • •	1312	"
1914	•••	• • •	• • •	948	,,	192	3	• • •		1414	"
1915	•••		• • •	1219	,,	192	4			1464	"
1916	• • •	• • •	• • •	1351	,,	192	5			1361	"
1917	•••	• • •	• • •	1544	,,	192	6			1600	,,
1918	•••	•••	•••	1472	"	192	7			1761	,,
1919	•••	• • •	•••	1001	,,	192	8	• • •		1820	,,

The notifications of Tuberculosis of organs other than the lungs since 1914—the first full year after the commencement of notification—were as follows:—

					11020 665 .	LOTIO M	D .		
1914	 • • •	•••	458	cases.	1922		• • •	 275	cases.
1915	 		373	,,				308	
1916	 • • •		433	,,				341	••
1917	 •••		492	,,					• •
1918	 		387	,,				237	
1919	 •••		234	,,	1927			 207	**
1920	 		253	,,	1928			158	"
1921	 •••		254	,,					,,
				* *					

Table H which follows, gives a comparison of the death rates from All Forms of Tuberculosis and Respiratory Tuberculosis in England and Wales and the 17 other large towns, for the years 1919 to 1928. The Chart which accompanies the Table shows very graphically the rise during the war years and the subsequent fall. Sheffield's improved position is clearly indicated.

It will be seen that in 1928 Sheffield's death rate from Tuberculosis was less than that of any other town with the exception of Plymouth, very considerably less than most of them, and, as regards Respiratory Tuberculosis, actually less than the death rate for England and Wales.

These results are particularly gratifying in view of the nature of the principal industries of Sheffield. The great improvement in the conditions under which various classes of grinding and abrasive industries are now carried out, and the detection and treatment of early cases under the Silicosis Regulations, must be an important factor in the remarkable reduction of mortality which has occurred since 1916. Nevertheless, the conditions under which many of the men in the cutlery trade are employed are still profoundly unsatisfactory. They will never, in my opinion, be as they should be until the present antiquated organisation of this trade is reformed, and the system of giving out work to the lessees of little, dark, insanitary "wheels" is abandoned in favour of large and economically-organised factories, where proper equipment for ventilation, etc., would be provided and adequate supervision made possible.

It is at present impossible to prevent the practice of spitting in these places; ventilation duets for the removal of dust are not infrequently blocked up to prevent "draughts," and the "dry-racing" of grindstones is sometimes practised in contravention of the regulations. The system of having three stones run "tandem-fashion" means that men employed on the hindermost stones are often working almost in the dark, which promotes uncleanliness and lowers the individuals' resistance to respiratory and other diseases.

The large amount of unemployment which still prevails in these trades, although in other respects so regrettable, has probably had some effect in reducing the amount of Tuberculosis, as a large number of grinders and others employed in the dangerous sections of these trades are not at present exposed to the risk of damage to the lungs which occurs while they are at work.

 TABLE H.—Tuberculosis, All Forms, and Tuberculosis of the Respiratory System.
 Mortality per Million Living.

 England and Wales and Towns over 200,000 Population.
 Years 1919-1928.

spy.	755	098	1179	8601	745	954	876	942	1011	821	1048	949	933	744	1213	1077	1009	750	777	944	
$rac{1928}{ ext{Forms}}$								_ 													ined
	928	886	1385	1292	935	1142	1014	1121	1206	866	1321	1095	11151	947	1416	1248	1211	901	959	1129	n obta
1927 18 Respy	791	911	1146	1189	669	965	1037	945	971	791	1106	945	1080	784	1401	1208	1277	959	794	2101	ave bee
All Forms Respy	972	1078	1383	1410	886	1166	1219	1107	1237	1003	1390	1155	1394	1004	1708	1457	1543	1162	896	1239	hich he
6 Respy.	771	948	1224	1211	740	166	952	953	1005	828	1170	998	994	190	1261	1163	1077	816	821	995	1928, w
$rac{1926}{ ext{Forms}}$	196	1097	1486	1439	925	1241	1158	1143	1205	1029	1489	9801	1332	686	1516	1382	1263	1132	1010	1218	se for
	833	953	1210	1330	793	8901	946	970	1026	908	1209	1000	986	867	1398	1322	1308	953	753	1050	n of the
$rac{1925}{ ext{All}}$ Forms Respy.	1038	1144	1514	1577	993	1294	1200	1174	1271	1010	1561	1208	1323	1121	1663	1599	1515	1192	923	1293	exceptio
!	841	943	1242	1205	813	1088	917	970	1071	858	6111	943	968	1000	1284	1208	1247	1032	908	1036	th the
$\begin{array}{c} 1924 \\ \text{All} \\ \text{Forms} \mid \text{Respy.} \end{array}$	1058	1109	1526	1506	1027	1410	1137	1191	1354	1072	1459	1184	1158	1228	1588	1493	1521	1275	974	1290	"Statistical Review," with the exception of those for 1928, which have been obtained
	836]	885	1251	1245	851 1	1068	949	951	983	839	1099	899	978	854	1353	1222	1340 1	1067	843	1038	cal Revi
$\begin{array}{c} 1923 \\ \text{All} \\ \text{Forms} \end{array}$	1062	1067	1608	1534	1023	1371	1209	1177	1233	1069	1476	1181	1228	1045	1627	1439 1	1693	1321 1	1055	1298	"Statistical Rev
	889	931	1321	1275 1	1001	1129 1	1060	957 1	1017	779 1	1158 1	993 1	1096	909 1	1359 1	1286	1287	1093 1	972 1		
$\begin{array}{c} 1922 \\ \text{All} \\ \text{Forms} \mid \text{Respy.} \end{array}$																				16	ar Gen
	4 1121	9 1108	8 1655	9 1602	4 1209	1 1416	5 1323	$3 \mid 1193$	$6 \mid 1412$	4 1033	$6 \mid 1499$	$1 \mid 1247$	7 1380	6 1175	5 1662	1 1541	8 1568	1 1352	6 1128	2 1361	Registr
$\begin{array}{c} 1921 \\ \text{All} \\ \text{Forms} \big \text{Respy.} \end{array}$	884	939	1268	1319	974	1091	935	1013	1086	924	1246	901	11197	906	1355	1181	1238	1051	856	1082	n the
All Forms	1127	1115	1676	1653	1228	1383	1100	1274	1443	1192	1634	1152	1515	1176	1644	1467	1534	1301	1018	1361	en fror
Respy.	888	918	1399	1218	928	1211	985	1001	984	932	1379	879	1099	929	1360	1179	1336	066	858	1093	en tak
$\begin{array}{c} 1920 \\ \text{All} \\ \text{Forms} \mid \text{Respy.} \end{array}$	1131	1093	1722	1492	1181	1538	1215	1303	1317	1125	1814	1160	1479	1156	1660	1463	1605	1238	1042	1367	have be
!	966	1162	1447	1331	1007	1291	1102	1167	1087	1128	1240	1235	1203	186	1304	1212	1296	1286	1064	1197	figures
All Forms, Respy.	1258	1358	1777	1627	1275	1683	1340	1462	1523	1358	1650	1514	1546	1268	1644	1457	1639	1665	1254	1502	e rates
<u>—</u>	Wales 1		:	:	:	:	:	:	:	:	:	:		:	:	:	:			rons i	of th
Towns	England & Wa	Birmingham	Liverpool	Manchester	SHEFFIELD	Leeds	Bristol	West Ham	Hull	Bradford	Newcastle	Nottingham	Stoke-on-Trent	Portsmouth	Salford	Leicester	Cardiff	Plymouth	Croydon	Averages for Towns	The whole of the rates figures have been taken from the Registrar General's

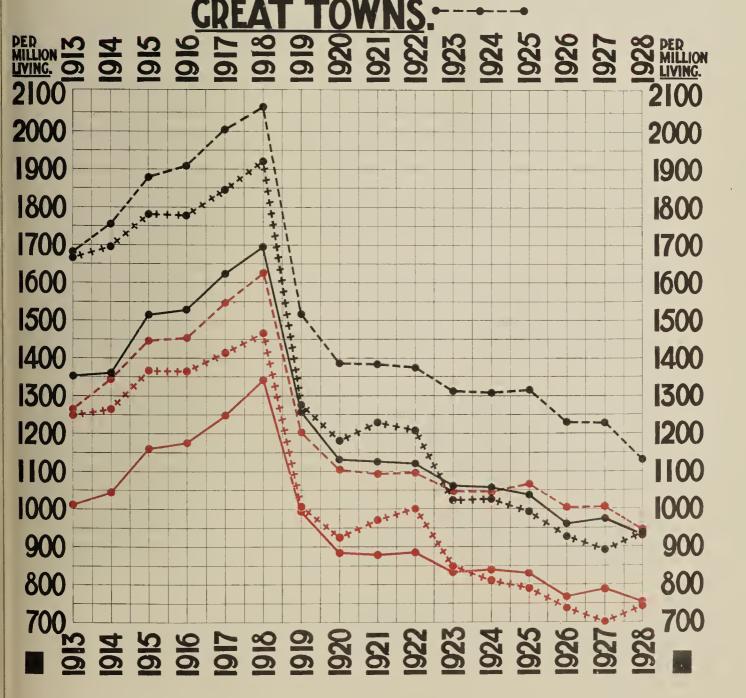
TUBERCULOSIS.

MORTALITY DED MILLION LIVING IN
SHEFFIELD AND THE GREAT TOWNS WITH
200,000 POPULATION, ALSO ENGLAND AND WALES,
DUDING THE YEADS

DURING THE YEARS

TUBERCULOSIS - ALL FORMS SHEWN-BLACK.

SHEFFIELD. THE SHEFFI



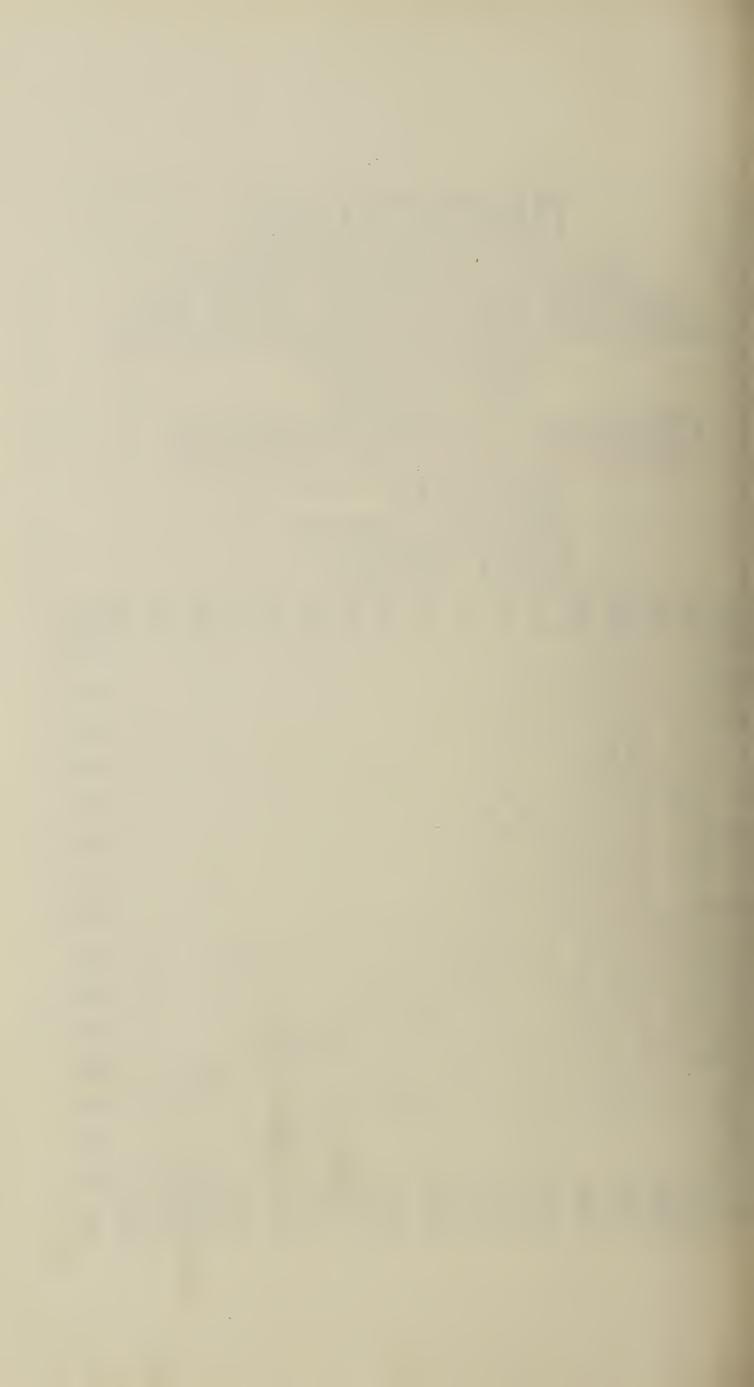


TABLE I.—Pulmonary Tuberculosis in Sheffield.—Mortality Rates among Workers in Unhealthy Trades, and among All Persons over 15 (for comparison), during the years 1924, 1925, 1926, 1927 and 1928.

Trades	Workers employed over 12 years of age (Census 1921).	e Number Rate									
•		1924 1925 1926 1927 1928				per 1,000					
		11924	1925	1926	1927	1928	1924	1925	1926	1927	1928
Grinders	4,893	35	31	28	38	30	7.2	6.3	$5 \cdot 7$	7.8	6.1
Cutlers	3,940	11	11	12	10	4	2.8	2.8	3.0	$2 \cdot 5$	1.0
Filecutters	2,011	7	2	3	2		3.5	1.0	1.5	1.0	•••
All persons over 15 years of age in Sheffield	358,306	414	398	371	353	372	1.1	1.1	1.0	1.0	1.0

Figures were taken out for mortality of Grinders, Cutlers, and Filecutters over 18 years of age in 10 years, 1901 to 1910, and the Pulmonary Tuberculosis rates were as follows:—

Grinders, 14.8; Cutlers, 5.8; and Filecutters, 4.9 per 1,000 per annum.

Among the factors in the decline of Tuberculosis in Sheffield, perhaps the most important is the work of your Tuberculosis Officer, Dr. Rennie, and his staff, at the Hospitals and Dispensary. At the latter institution especially, an enormous number of eases of Tuberculosis suspects and contacts are kept under direct and continuous supervision.

The system adopted here differs in some respects from that recommended in the Astor Report and adopted by the Ministry of Health. But under the peculiar eircumstances of Sheffield the methods which have been evolved appear to have justified themselves.

Other forms of Tuberculosis are treated by Dr. C. Lee Pattison at the admirably equipped King Edward VII. Sanatorium, and also as out-patients at the Tuberculosis Dispensary, Queen's Road. The results obtained at these institutions are responsible for the saving of many young lives and the prevention of much otherwise inevitable crippledom, and have a marked influence on the reduction of our death rate. A detailed report on this work is given by Dr. Pattison under the heading of Prevention and Treatment of Tuberculosis.

INFANT MORTALITY.—The number of deaths of Infants under one year of age was 619, as ecompared with 774 in 1927, 712 in 1926, 788 in 1925, 871 in 1924, 915 in 1923, 884 in 1922, and 1,173 in 1921. The number of births registered in 1928 was 8,438. Infant Mortality is usually recorded as the number of deaths occurring under the age of twelve months per 1,000 births registered during the same period, and the rate for 1928 calculated in this manner is 73 per 1,000, 18 per 1,000 lower than in 1927, and constitutes a new low record.

Deaths of infants occurring before the first month of life was reached numbered 323. This gives a rate of 38 per 1,000 births registered, or what is known as the neo-natal mortality. The neo-natal mortality for 1927 was 40; for 1926, 23; for 1925, 37; for 1924, 44; for 1923, 39; for 1922, 39; and for 1921, 41.

The following Table gives alongside the Infant Mortality rates for England and for Sheffield during the past 20 years. The noteworthy feature of the comparison is that the rate for Sheffield in recent years has usually more nearly approached the English rate than it did in the first decade of the century.

TABLE J.—Infant Mortality.

Year	Infant M Sheffield	lortality England	Excess over English Rate	Year	Infant M Sheffield	Iortality England	Excess over English Rate
1909	119	109	10	1919	96	89	7
1910	127	105	22	1920	104	80	24
1911	141	130	11	1921	99	83	16
1912	107	95	12	1922	82	77	5
1913	128	108	20	1923	90	69	21
1914	132	105	27	1924	90	75	15
1915	133	110	23	1925	85	75	10
1916	109	91	18	1926	79	70	9
1917	104	96	8	1927	91	70	21
1918	128	97	31	1928	73	65	8

If the principal causes of deaths of infants, as set forth in the following Table, be examined, it will be seen that the usual fluctuations in the fatality of some of the more common infectious diseases took place. For these annual fluctuations we are at present unable to account, and we are largely powerless to control them. The year's experience, however, proves yet again that as causes of mortality among young children, Scarlet Fever and Diphtheria have become negligible as compared with Measles and Whooping-cough. This fact has long been recognised by the medical profession, but the public persists in believing that Measles and Whooping-cough, the deadliest scourges of infancy, may be regarded as trivial complaints. Scarlet Fever and Diphtheria, on the other hand, still inspire all the horror which was justified a generation ago, but which modern treatment and other factors have rendered unnecessary.

This failure to appreciate facts is a serious handicap to preventive work. The control of Measles is especially difficult owing to the fact that it is infectious for some days before the rash appears, and of Whooping-cough because of the insidious nature of its onset. But our figures prove, and have proved for years, that the isolation of these diseases is more urgent than that of Searlet Fever and Diphtheria. Most eases of the former could be successfully treated at home, hospital beds being retained for severe eases requiring institutional treatment, and the majority of beds now retained for their use being devoted to Measles and severe eases of Whooping-cough. The infectious stage of Measles is so much shorter than that of Searlet Fever, that a much larger number of eases could be isolated and protected from complications, with a proportionate saving of young lives.

Taking Influenza, Bronehitis and Pncumonia as one group, there was a steady decline in the number of deaths in recent years until 1927, when the number rose considerably higher. The 1928 total, however, was below the 1926 figure.

The differentiation between Pneumonia and Bronehitis in infants is not of great importance as the terms "Capillary Bronehitis" and "Broneho-pneumonia," at this age, are practically interchangeable.

Deaths from Diarrhea and Enteritis fell from 105 in 1923 to 67 in 1924, but rose to 109 in 1926. There was a fall in 1927 to 61, and a further fall in 1928 to 56. Once more the relationship between these diseases and the sub-soil (four-foot) temperature, which used to be so constant, failed to re-appear.

Among the most important factors in bringing about this amazing decline in mortality from these eauses, I think we must place the wide substitution of dried milk for so-called fresh but highly-contaminated milk, and the educative work earried out by the medical staff and the women inspectors in connection with the child-welfare centres.

Until the methods of the farmers and others concerned in the milk industry have been revolutionised, and consumers have been provided with facilities for storage and education in the handling of milk, I am definitely of the opinion that liquid milk should be banished from the dietry of infants.

The amount of dried milk distributed in each of the last nine years has been as follow:—1920, 223,901 lbs.; 1921, 213,578 lbs.; 1922, 172,138 lbs.; 1923, 139,774 lbs.; 1924, 158,542 lbs.; 1925, 152,019 lbs.; 1926, 139,731 lbs.; 1927, 123,460 lbs.; and 1928, 120,748 lbs. As against the drop in the sale of dried milk there has been an increase in the sale of other foods, 28,765 lbs. having been retailed during 1928, as against 28,088 lbs. in 1927, 16,871 lbs. in 1926, and 12,105 lbs. in 1925.

In the following table particulars are given of Infant Mortality from stated causes under one year of age, during the past five years.

TABLE K.—Infant Mortality in 1924, 1925, 1926, 1927 and 1928.

Cause of Death		100		umber of Dea		
		1924	1925	1926	1927	1928
Measles		35	7	16	6	23
Scarlet Fever		••;			1	
Whooping Cough		13	52	9	56	4
Diphtheria		2	2	7	i	4.
Tuberculous Meningitis		3	3	5	$-\frac{1}{7}$	7
Abdominal Tuberculosis		2	2		1	
Other Tuberculous Diseases		2	1	5		1
Influenza		9	7	5	17	4
Bronchitis		69	69	42	59	29
Pneumonia (ail forms)		134	127	108	136	98
Diarrhœa and Enteritis		67	74	109	61	56
Syphilis	• • • •	13	12	2	6	8
Congenital Malformation		42	40	35	46	42
Premature Birth		248	186	195	184	186
Atrophy, Debility, and Maras	smus .	68	46	54	52	44
Other Causes		164	160	120	141	113
Totals		871	788	712	774	619

1928 Infant Mortality Rate:—Legitimate, 71; Illegitimate, 133.

As it has been suggested that the reduction of Infant Mortality tends merely to postpone the deaths of feeble and degenerate infants from the first year to a slightly later period, thus prolonging the suffering of the child and increasing the burden of those responsible for it, I have had two tables prepared in order to ascertain whether this is true of our work in Sheffield.

The following Table shows the Infant Mortality Rate, the Mortality Rate from 1 to 5 years, and the General Death Rate in Sheffield for each fifth year from 1897. This covers the period during which our Child Welfare work has been developed.

TABLE L.—Infant Mortality Rate; Mortality Rate per 1,000 Births amongst Children over 1 and under 5 years of age and General Death Rate each fifth year since 1897.

	Infant	Mortality Rate	General
Year	Mortality Rate	per 1,000 Births ages 1-5 years	Death Rate
1897	196	94	21.2
1902	150	62	16.9
1907	145	87	17 · 1
1912	107	60	14.3
1917	104	61	14.6
1922	82	44	11.7
1927	91	50	12.3
1928	73	41	11.8
Percentage of 1897 figures	37%	44%	56%

It will be seen that while the Infant Mortality Rate for 1928 has fallen 37 per cent. of that for 1897, the Death Rate for the age period 1 to 5 years has also fallen to 44 per cent. of that for 1897.

The following Table compares the Infantile Death Rate from three principal groups of causes in 1928 and in 1901.

The first group comprises the death rate from prematurity, debility, etc., that is, congenital causes. This group consists almost entirely of the deaths of the weakly or degenerate infants with a bad heredity, whose elimination from the racial point of view is desirable. The other two groups comprise deaths from diarrhœal and respiratory diseases, in both of which cases I have been able to show that there is a much lower correlation with hereditary influences.

The Table shows that while deaths attributable to the first group of causes have declined from 79 per 1,000 Births in 1901 to 34 per 1,000 Births in 1928, the deaths from diarrheal group have declined from 55 per 1,000 to 7 per 1,000. It is evident that the great majority of infantile deaths occur among the congenitally undesirable type of children and that our efforts to improve the environment of the children are not causing a deterioration of the race, as has been suggested in certain quarters.

TABLE M.—Infantile Mortality from All Causes and from Specified Causes grouped.

Years 1901 and 1928.

	100	01	10	28
	Number of Deaths	Mortality per 1,000 Births	Number of Deaths	Mortality per 1,000 Births
Prematurity	300		186	
Debility Marasmus	>		44	
Congenital Malformations Convulsions	83 292		42 15	
	1010	79	287	34
Diarrhœal Diseases	706	55	56	7
Pneumonia Bronchitis	160 169		98 29	
	329	26	127	15
All Causes	2573	*202	619	73

^{*}The Infantile Mortality Rate for 1901 (202) was the highest recorded since the year 1871.

REGISTRATION SUB-DISTRICTS AND SECTIONS.

A full description of the boundaries of the Sections adopted as statistical units was given in the Annual Report for 1923. Owing to the different enumeration areas adopted in connection with the 1921 Census, the boundaries between Broomhall A and B, and Ecclesall North A and B, have had to be slightly altered. The area involved is in one case 12 acres and in the other 3 acres. With these exceptions the areas remain the same.

Table V gives the estimated population, the density of the population, death rates from all causes and from certain specified causes, infant mortality rates, and birth rates, in each of the statistical areas of the City, and sickness from the notifiable infectious diseases is given in Table XVIII.

With regard to mortality in the statistical areas, while the boundaries of the areas as given in the tables do not accurately conform to the different residential and industrial portions of the City, it will nevertheless be seen that the death rates are, on the whole, higher in the overcrowded and smoky industrial neighbourhoods than in the higher class residential parts, where, of course, the standard of living is generally very much better.

POSITION OF SHEFFIELD AMONGST THE LARGEST TOWNS.

Table N shows the birth rates, death rates, and infant mortality rates in the 18 largest towns of England and Wales during 1928. The birth rates varied from 22·1 in Liverpool to 15·3 in Bradford. Twelve of the eighteen towns had higher rates than Sheffield. The death rates vary from $10 \cdot 9$ in West Ham and Birmingham to $13 \cdot 6$ in Bradford. Sheffield ranks ninth lowest with $11 \cdot 8$. The infant mortality rates vary from 53 in Croydon to 106 in Salford. Eight of the towns have lower rates than Sheffield.

TABLE N.—Birth Rates and Death Rates in Towns with 200,000 Population for the year 1928.

Т	'own			Population	Crude Birth Rate per 1,000	Crude Death Rate per 1,000	Infant Mortality
Birmingham	• • •	•••	•••	†976,500	17.6	10.9	65
Liverpool	•••	•••	•••	†866,000	22.1	13.2	94
Manchester				†767,530	16.8	12.9	91
SHEFFIELD	•••			‡ 515,400	16.4	11 · 8	73
Leeds		•••	•••	‡ 476,5 00	16.1	12.9	79
Bristol			•••	‡390,400	16.3	11.5	59
West Ham	•••		•••	‡306,900	19.3 -	10.9	64
Hull	•••	•••	•••	‡297,600	$21\cdot 2$	12.8	79
Bradford	•••	• • •	•••	‡288,500	15.3	13.6	69
Newcastle	• • •	• • •	•••	*‡281,500	19.3	13.1	82
Stoke	•••	• • •	•••	‡279,700	19.6	11.7	87
Nottingham		• • •	•••	‡266,600	17.7	12.8	85
Leicester	•••	• • •	•••	‡246,000	16.2	11.2	71
Salford	•••	• • •	•••	‡241,500	16.9	13.3	106
Portsmouth	•••	• • •	•••	*‡240,700	17.2	11.3	55
Cardiff	•••	• • •	•••	‡227,000	18.0	11.7	77
Croydon	•••	•••	•••	‡216,900	15.7	11.0	53
Plymouth	•••	•••	•••	†211,980	17.0	12.0	69
				VI .			

^{*} Excluding non-civilians.

[†] Local estimate.

[‡] Registrar General's estimate.

STATISTICAL TABLES.

TABLE I.—Population, Estimated Increase or Decrease, and Natural Increase, 25 Years.

YEAR.	Estimated Mean Population (per Registrar- General.)	Estimated Increase or Decrease.	Excess of Births over Deaths.
1904	423,355	+ 4,449	6,526
1905	427,850	+4,495	5,576
1906	432,395	+4,545	5,945
1907	436,986	+ 4,591	6,353
1908	441,630	+4,644	6,931
1909	446,321	+4,691	6,198
1910	451,065	+ 4,744	6,238
1911	455,817	+4,752	5,288
*1912	466,408	+10,591	6,226
1913	471,662	+ 5,254	5,842
*1914	476,971	+ 5,309	5,214
1915	476,012	– 959	3,966
1916	465,494	-10,518	4,752
1917	469,293	+ 3,799	4,134
1918	465,217	-4,076	1,014
1919	473,695	+ 8,478	3,789
1920	492,700	+19,005	6,508
*1921	519,239	+26,539	5,623
1922	522,600	+ 3,361	4,707
1923	524,200	+ 1,600	4,183
1924	525,000	+ 800	3,602
1925	526,900	+ 1,900	3,243
1926	523,300	- 3,600	3,086
1927	524,900	+ 1,600	2,090
1928	- 515,400	- 9,500	2,399

^{*} City extended October 31st, 1901; April 1st, 1912; October 1st, 1914; and November 9th, 1921.

TABLE II.—Registration Sub-Districts and parts of Registration Sub-Districts, together with the Municipal Wards or parts contained therein.

Registration Sub	-Distri	cts.		Municipal Wards.
Sheffield North .				St. Philip's.
Sheffield South .	•••	•••	•••	St. Peter's (part); Crookesmoor (small part containing *64 persons).
Sheffield Park .				Park.
Brightside West .				Brightside (part); Burngreave (part); Neepsend.
Brightside East .				Brightside (part); Burngreave (part).
Attercliffe				Attercliffe (part).
Darnall				Darnall.
Handsworth .				Handsworth.
Tinsley (part of S.I	E. R'h	am.)		Attereliffe (part).
				Hillsbro' (part).
Bradfield (part) .				Hillsbro' (part).
Ecclesfield	••			Hillsbro' (part); Neepsend (part); Brightside (part).
Ecclesall North .				Walkley; Hillsbro' (part).
Ecclesall West Cen	tral	•••	•••	Crookesmoor (part); Hallam; St. Peter's (small part containing *36 persons).
Ecclesall South (i	ncludi	ng		
AT I I		•••		Ecclesall; Heeley.
D., 1 11	••	• • •		Broomhall; Sharrow.

^{*} Census 1921.

TABLE III.—Marriages and Marriage Rates in Sheffield and in England and Wales since 1890.

Year.	Total Number of Marriages in Sheffield.	Persons married per 1,000 in Sheffield.	Persons married per 1,000 in England and Wales,
1890	3,174	19.7	15.5
1891	3,128	19.2	15.6
1892	3,091	$18 \cdot 7$	15.4
1893	2,797	$16 \cdot 6$	$14 \cdot 7$
1894	3,215	18.8	15.0
1895	2,810	$16 \cdot 2$	15.0
1896	3,322	18.8	15.7
1897	3,465	19.3	16.0
1898	3,496	$19\cdot 2$	16.2
1899	3,663	19.8	16.5
1900	3,508	18.7	16.0
1901*	3,640	18.8	15.9
1902	3,682	17.8	15.9
1903	3,506	$16 \cdot 7$	15.7
1904	3,507	$16 \cdot 5$	15.3
1905	3,466	$16 \cdot 2$	15.3
1906	3,943	$18\cdot 2$	15.7
1907	4,004	18.3	15.9
1908	3,419	$15\cdot 5$	15.1
1909	3,445	$15 \cdot 4$	14.7
1910	3,639	$16 \cdot 1$	15.0
1911	3,726	16.3	15.2
1912*	3,885	16.7	15.5
1913	4,077	$\overline{17\cdot3}$	15.5
1914*	4,062	$17 \cdot 0$	15.9
1915	4,905	$20 \cdot 6$	19.3
1916	4,256	$\overline{18\cdot 3}$	14.9
1917	3,968	$15 \cdot 2$	13.8
1918	4,066	$15 \cdot 6$	15.3
1919	4,947	$20 \cdot 1$	19.7
1920	5,075	$20 \cdot 6$	$20 \cdot 1$
1921*	4,089	$\overline{16\cdot3}$	$\overline{16\cdot9}$
1922	3,774	$14 \cdot 4$	15.7
1923	3,990	$15\cdot 2$	15.2
1924	3,951	$15 \cdot 1$	15.3
1925	3,987	$15 \cdot 1$	$15\cdot 2$
1926	3,660	$14 \cdot 0$	$14 \cdot 3$
1927	4,164	15.9	15.7
1928	4,060	15.8	15.3
Average	3,758	17.3	15.8

^{*} City extended

TABLE IV.—Population and Births and Deaths in Sheffield in past years. Also Birth-rates and Death-rates in Sheffield and in England and Wales.

			SHEFF	IELD.		ENG	LAND.
		BIRTI	HS.	DEAT	THS.		
YEAR.	POPULA- TION. (Estimated)	Number of Births.	Birth-rates per 1,000 living per annum.	Number of Deaths.	Death-rates per 1,000 living per annum.	Birth-rates.	Death-rates
1851	135,310	5,946	41.6	4,027	$28 \cdot 2$	$34 \cdot 2$	$22 \cdot 0$
1861	186,375	7,561	40.5	4,610	$24 \cdot 7$	$34 \cdot 6$	21.6
1871	241,506	9,674	40.4	6,843	$28 \cdot 3$	$35 \cdot 0$	21.6
1881	284,508	10,814	38.0	5,909	$20 \cdot 7$	$33 \cdot 9$	18.9
1891	325,547	11,862	36.4	7,775	$\begin{bmatrix} \tilde{23} \cdot 9 \end{bmatrix}$	$31 \cdot 4$	$20 \cdot 2$
*1901	410,151	12,766	33.0	7,891	$\frac{20 \cdot 4}{20 \cdot 4}$	$28 \cdot 5$	16.9
1902	414,506	13,938	33.6	7,064	$17 \cdot 0$	$\frac{28 \cdot 5}{28 \cdot 5}$	$16 \cdot 3$
1903	418,906	14,136	33.6	7,976	19.0	$28 \cdot 5$	15.5
1904	423,355	13,850	32.7	7,284	$17 \cdot 2$	$28 \cdot 0$	$16 \cdot 3$
1905	427,850	13,082	30.6	7,510	17.6	$27 \cdot 3$	$15 \cdot 3$
1906	432,395	13,420	31 · 1	7,475	17.3	$27 \cdot 2$	$15.\overline{5}$
1907	436,986	14,125	$32 \cdot 3$	7,772	17.8	$26 \cdot 5$	$15 \cdot 1$
1908	441,630	14,268	$32 \cdot 3$	7,337	$16 \cdot 6$	$26 \cdot 7$	$\overline{14\cdot 8}$
1909	446,321	13,296	29.8	7,098	15.9	25.8	$\overline{14\cdot 6}$
1910	451,065	12,664	28 · 1	6,426	$14 \cdot 2$	$25 \cdot 1$	$13 \cdot 5$
1911	455,817	12,623	$27 \cdot 7$	7,335	16 · 1	$24 \cdot 4$	$14 \cdot 6$
*1912	466,408	12,887	$27 \cdot 7$	6,661	$14 \cdot 3$	$23 \cdot 8$	$13 \cdot 3$
1913	471,662	13,288	$28 \cdot 2$	7,446	15.8	$23 \cdot 9$	$13 \cdot 8$
*1914	476,971	13,004	27.3	7,790	16.3	23.8	$14 \cdot 0$
1915	476,012	12,139	$25 \cdot 5$	8,173	$17 \cdot 2$	21.8	$15 \cdot 7$
1916	465,494	12,014	$23 \cdot 7$	7,262	15.6	20.9	$14 \cdot 4$
1917	469,293	11,026	21.1	6,892	14.7	17.8	$14 \cdot 4$
1918	465,217	10,746	20.6	9,732	20.9	$17 \cdot 7$	$17 \cdot 6$
1919	473,695	10,353	21.0	6,564	13.9	$18 \cdot 5$	$13 \cdot 7$
1920	492,700	13,130	26.6	6,622	13.4	$25 \cdot 5$	$12 \cdot 4$
*1921	519,239	11,907	23 · 8	6,284	12.5	$22 \cdot 4$	$12 \cdot 1$
1922	522,600	10,804	$20 \cdot 7$	6,097	11.7	20.4	$12 \cdot 8$
1923	524,200	10,195	19.4	6,012	11.5	$19 \cdot 7$	$11 \cdot 6$
1924	525,000	9,712	18.5	6,110	11.6	18.8	$12 \cdot 2$
1925	526,900	9,321	17.7	6,078	11.5	18.3	$12 \cdot 2$
1926	523,300	9,013	$17 \cdot 2$	5,927	11.3	17.8	$11 \cdot 6$
1927	524,900	8,526	$16 \cdot 2$	6,436	12.3	$16 \cdot 7$	$12 \cdot 3$
1928	515,400	8,438	16.4	6,099	11.8	16.7	11.7

Population at earlier dates:—1736, 14,105; 1801, 45,755; 1811, 53,231; 1821, 65,275; 1831, 91,692; 1841, 111,091.

I desire to call particular attention to the above table, as so many people still lament the progressive decline in the Birth Rate, without, as it seems to me, giving adequate consideration to the laws which govern the increase in population.

The table shows that while in 1851, with a Birth Rate of 41·6 and a Rate of Increase, *i.e.*, excess of Birth Rate over Death Rate, of 13·4, the actual increment of population was 1,919, in 1928, with a Birth Rate of only 16·4 and a Rate of Increase reduced to 4·6 the actual increment was no less than 2,339.

This, of course, is because these rates have to be applied to an enormously increased population. Had the Birth Rate which prevailed in 1851 been maintained in 1928, the actual number of Births would have been 21,441 instead of 8,438.

Under existing social conditions I cannot understand that such an influx of new children could be considered desirable. It would, in my opinion, be inevitably counteracted by a reversion to something like the rates of Infant Mortality which prevailed in the last century.

^{*} City extended.

TABLE V.—Registration Sub-Districts and Sections; Estimated Population; Density; Death-Rates, All Causes

					1						i; Der		BRIGHTSIDE			ATTERCLIFFE	
	DISTRICT.		North.				South.			RK.	Brigh WE		BRIG EA		ATTER	CLIFFE	
			A.	В.	C.	A.	В.	C.	A.	В.	A.	В.	Α.	В.	A.	В.	
Es	TIMATED POP	ULATION.	5,127	16,117	9,106	13,443	5,145	7,146	12,635	25,226	23,107	28,393	12,471	31,916	18,174	10,414	
PE	RSONS PER A	CRE	52	177	134	81	70	61	94	11	71	16	53	24	67	65	
	Causes of Di	EATH.														,	
Sm	nall Pox .		•••		•••	•••	•••										
Me	easles	•••	0.585	0.620	0.110	0.372	0.583	0.280	0.396	0.317	0.173	0.106	0.321	0.219	0.220	0.480	
Sca	arlet Fever .		•••	0.124			•••	0.140		0.119	0.087	0.141			0.055	•••	
Di	phtheria .		0.195			0.149	0.389			0.119	0.173	0.035	0.080	0.125	0.055		
W	hooping Cough	h		0.062		•••	0.194	0 · 140		0.040		•••				0.096	
En	teric Fever .			•••			•••	•••	•••	•••		0.035	0.080	•••			
Ini	fluenza .			0.062	0.329	•••	•••	0.140	•••	0.040	0.173	0.317	0.160	0.251	0.165	0.288	
Pu	erperal Fever.	•••	•••	0.062	0.110	0.074			•••	0.040	0.173	0.035	0.160	0.251			
Di	arrhœa and E	Interitis	0.195	0.248	0.220	0.298	0.389		0.237	0.198	0.087	0.282	0.241	0.251	0.275	0 · 192	
Pn	eumonia .	•••	1.950	1.489	0.549	1.562	1.555	0.420	1.741	1.625	0.952	0.880	1.844	1.441	1.761	0.960	
Ca	ncer		2.341	1.303	1.977	1.934	0.583	1.819	1.345	0.991	$1 \cdot 255$	1.021	1.123	1.065	1.761	1.920	
	berculosis of l tory System .		1.950	1.427	1.318	$1\cdot 265$	1.361	0.840	1.108	0.634	0.822	0.493	1.203	0.815	0.715	0.480	
	her Forms of 'culosis	Tuber-	0.390	0.620	0.110	0.298	0.194	0 · 140	0.237	0.317	0.476	0.106	0.080	0.157	0.110	0.192	
Rł	neumatism, etc	c			0.329						0.173		1		l.		
	Nervous Syst Sense Orga		0.780	0.807	0.879	0.744	0.583	0.560	0.554	0.714	0.779	0.775	0.802	1.128	0.660	0.864	
	Circulatory S	System	6.437	3 · 413	$2 \cdot 745$	5.653	3.304	2.519	3.008	2.775	3 · 852	2.465	2.967	2.789	2.091	2.97	
	Respiratory except Pne		0.585	0.683	0 · 439	0.372	0.583	0.280	0.871	0.555	0.563	0.669	0.561	0.909	0.935	1.152	
Diseases of	Digestive except Di and Enteri	System iarrhœa itis	0.390	0.310	0.439	0.521	0.583	0.280	0.554	0.515	0.606	0.458	0.481	0.345	0.275	0.960	
Dise	Genito-Urina tem e Venereal D	except	0.505	0.400	0.400	0.050	0.050	0 700	0.015	0.515	0.476	0 500	0.401	0.701	0.440	0.289	
	Early Infanc										0.476						
	Puerperal St		1,909	1.117	0.439	0.223	1.301	0.420	0.633	0.991	0.092	,0.964	0.122	0.009	0.110	0 072	
	cept Puer		•••	•••		•••		•••	0.079	0.119		•••	0.080	0.031	0.165	0 · 192	
Su	icide		0.195	•••		0.149	0.194	0.140	0.158	0.079	0.130	0.070	•••	0.031	0.165	0.096	
	her affection duced by E Causes .	External	0.780	0.494	0.220	0.446	0.777	0.500	0.475	0.957	0.173	0.500	0.481	0.407	0.550	0.480	
		•••	1								0.173						
	Causes .				0.949	0.144	1.100	0.7280	0.911	1.110	0.319						
De	eath Rates All	Causes	19.114	14.022	11.311	15.175	14 · 966	9.656	12.742	12.447	12.334	$10 \cdot 249$	12.669	12.502	11.830	12.867	
-	ant Mortality			137	48	43	124	80	73	67	81	81	77	99	84	79	
Bin	rth Rates .		$22 \cdot 040$	19.979	16.033	19.192	$20 \cdot 408$	10.495	20.657	31.357	18.652	12.996	21.730	$\overline{16\cdot512}$	20.964	20.549	
			A.	В.	C.	A.	В.	C.	A.	В.	A.	В.	Α.	В.	A.	В.	
	District			North			South		Pa	RK	Brigh Wi	TSIDE EST	Brigh Ea	TSIDE	ATTER	CLIFFE	

and Certain Specified Causes, and Birth Rates per 1,000 living, also Infant Mortality Rates, Year 1928.

-			11										1 100000,	2 00	7 1020.
	HANDSWORTH.		0,0	IELD.		Ecci	LESALL.		BROO	MHALL.					
DARNALL	NDSW	TINSLEY.	HILLSBRO'.	ECCLESFIELD	No:	ктн. В.	WEST.	SOUTH			SHARROW.	Norton.	CITY.		DISTRICT.
			-						A.	В.	SHA	Non			
35,931	-1	-II		-	10,496	27,050	50,184	49,427	15,013	9,588	24,574	23,835	515,400	F	ESTIMATED POPULATION
35	5	5	14	3	50	61	7	14	132	38	89	13	16	F	PERSONS PER ACRE.
															CAUSES OF DEATH.
		•••	•••			• • • •	•••		•••	• • •				s	mall Pox.
0.612		0.143				$0 \cdot 296$				0.104		0.168	0.229	N	Ieasles.
0.083		•••	•••			0.037		0.020		0.104	•••		0.047	s	carlet Fever.
0.111	0.178				0.381	0.074					0.041	0.042	0.072	I	Piphtheria.
•••				•••	•••	•••	0.020		0.133		0.081	0.084	0.023	V	Vhooping Cough.
0.028		•••	0.048			0.111				•••	•••	0.042	0.019	E	Interic Fever.
0.195			0.242	0.468		0.111	0.100		0		0.244	0.210	0.165	I	nfluenza.
0.028			•••		0.191		•••		0.133		0.122	0.042	0.062	P	uerperal Fever.
0.278	1		0.048		0.095			+	0.067		0.203	0.168	0.171	D	iarrhœa and Enteritis.
1.698	1			0.312			0.817					1	1.046	P	neumonia.
1.169	0.654	1 · 291	1.643	0.936	0.857	1.442	1.614	1.497	1.399	2.086	1.384	1.385	1.370	C	ancer.
) · 557	0.476	0.430	0.483	0.936	0.857	0.924	0.418	0.546	1.599	0.834	0.773	0 · 294	0.745	T	uberculosis of Respira- tory System
)-111		•••	0.145	0.312	0.286	0.111	0.199	0.142	0.200	0 · 209	0.122	0.168	0.190	О	ther Forms of Tuber- culosis.
).083	•••	0.287	0.097	0.312	•••	0.111	0.179	0.121	0.133	0.209	0.203	0.336	0.140	R	heumatism, etc.
).779	0.476	1.004	1.160	0.468	0.476	1 · 220	0.917	0.809	0.799	0.626	1.180	0.881	0.846		Nervous System and Sense Organs.
2.366	$2 \cdot 558$	1 · 291	2.416	1.872	3.525	3 · 438	3 · 407	3.176	3.797	4.068	3.378	3.482	3.114		Circulatory System.
002	0.654	0.861	0.628	0.936	0 · 286	0.702	0.518	0.546	0.533	0.834	0.977	0.420	0.673		Respiratory System except Pneumonia.
) · 417	0.476	0.430	0.387	0.468	0.381	0.481	0.558	0.506	0.533	0.626	0.448	0.503	0.477	Diseases of	Digestive System except Diarrhœa and Enteritis.
						1		1		Į.				Dise	Genito-Urinary
)-417	0.595	0.861	0.773	0.156	0.191	0.518	0.757	0.506	0.733	0.730	0.692	0.797	0.570		System except Venereal Disease.
) · 557	0.297	0.574	0.435	0.156	0.762	0.628	0 · 299	0.243	0.400	0 · 209	0.122	0.420	0.526		Early Infancy.
															Puerperal State ex-
0.028	•••	0.143		0.156			0.060	0.020			•••	0.042	0.037		cept Puerperal Fever.
056	0.059	0.143	0.193	0.312		0.074	0.100	0.101	0.200	$0 \cdot 209$	0.081	0.084	0.097	Su	nicide.
															ther affections produced by External
) • 445	0.952	0.430	0.435	0.624	0.191	0.370	0.239	0.384	0.466	0.626	0.244	0.210	0.413		Causes.
) · 668	1.011	1.148	0.628	0.468	0.476	0.665	0.857	0.971	1.266	0.939	1.099	1.133	0.801	Ot	ther Causes.
689	9.578	10 · 185	10.197	9.050	10 • 290	12.089	11.239	10.885	13.721	13.037	12.086	11.705	11.834	De	eath Rates All Causes.
84	45	113	55	49	78	66	64	50	84	89	43	69	73	In	fant Mortality Rates.
589	19.811	11.476	11.501	15.915	$20 \cdot 770$	14.455	12.135	11 · 289	15.120	9.387	13 · 266	13.342	16.372	Bi	rth Rates.
	тн.			,D.	A.	В.			Α.	В.					
TT	WOR	Υ.	RO'.	FIEL	Nor		WEST.	Sоптн)W.	5.			
DARNALL	HANDSWORTH	LINSLEY.	HILLSBRO'.	Ecclesfield.	21010						SHARROW.	Norton			
G.	H,	<u> </u>	H	Ec		Eccle	SALL.		Вкоом	HALL.	SH	No	CITY.		DISTRICT.

TABLE VI.—Registration Sub-Districts and Sections. Estimated Population, Acreage, and Density; and Birth-Rates, Death-Rates, and Infant Mortality Rates for the Quinquennium, 1923-1927 and 1928.

Registra Sub-Dis	tricts			Estimated Population 1928.	Acreage	Persons per Acre	Birth per 1 livi	,000	Death per l livi	,000	Mor	ant tality tes.
Section				1020.		1928	to 1927.	1928	to 1927.	1928.	to 1927.	1928.
North .	• •	• • •	\mathbf{A}	5,127	99	52	20.6	22.0	19.3	19.1	119	80
			В	16,117	91	177	25.3	20.0	16.8	14.0	119	137
			$\mathbb{C} \parallel$	9,106	68	134	18.3	$ 16\cdot0 $	12.4	11.3	94	48
South .			A	13,443	165	81	$21 \cdot 0$	19.2	14.8	15.2	109	43
			\mathbf{B}	5,145	73	70	$23 \cdot 1$	20.4	14.7	15.0	103	124
			$\mathbb{C} \parallel$	7,146	118	61	13.6	10.5	11.8	9.7	76	80
Park .	••		\mathbf{A}	12,635	135	94	23.4	$20 \cdot 7$	14.0	$12 \cdot 7$	111	73
			В	25,226	2,372	11	$21 \cdot 3$	31.4	12.8	12.4	91	67
Brightside V	Vest		A	23,107	325	71	19.9	18.7	12.6	12.3	90	81
•			В	2,8393	1,764	16	17.0	13.0	10.0	10.2	77	81
Brightside E	Cast		A	12,471	236	53	$23 \cdot 1$	$21 \cdot 7$	13.5	12.7	115	77
O			В	31,916	1,357	24	19.2	16.5	10.8	$12 \cdot 5$	89	99
Attercliffe .			A	18,174	271	67	22.0	21.0	13.1	11.8	107	84
			В	10,414	159	65	19.1	20.5	12.3	12.9	88	79
Darnall .				35,931	1,040	35	20.5	17.6	10.7	11.7	85	84
Handsworth				16,809	3,566	5	21.9	19.8	11.4	9.6	79	45
Tinsley .				6,971	1,524	5	16.8	11.5	9.0	10.2	80	113
Hillsborough	1			20,693	1,521	14	14.3	11.5	10.6	10.2	67	55
Ecclesfield.	••			6,409	2,331	3	15.4	15.9	9.9	9.1	83	49
Ecclesall No	rth		A	10,496	210	50	21.4	20.8	11.3	10.3	107	78
			В	27,050	444	61	17.5	14.5	10.7	12.1	71	66
Ecclesall We	est Cer	ntral		50,184	7,588	7	13.4	12.1	10.9	11.2	71	64
Ecclesall So	uth	• • •		49,427	3,613	14	12.6	11.3	9.8	10.9	66	50
Broomhall .		• • •	A	15,013	114	132	18.1	15.1	13.7	13.7	92	84
			В	9,588	251	38	11.3	9.4	12.3	13.0	77	89
Sharrow .				24,574	275	89	14.0	13.3	11.7	12.1	70	43
Norton .	••	•••		23,835	1,906	13	13.9	13.3	9.7	11.7	68	69
			-									
Cit	У	•••	•••	515,400	31,616	16	17.8	16.4	11.7	11.8	87	73

TABLE VII.—Infant Mortality; Nett Deaths from stated causes at various ages under One Year. 1928.

Causes of Death		Under 1 week.	l-2 weeks.	2.3 weeks.	3.4 weeks.	Total under 4 weeks.	4 weeks and under 3 months.	3 months and under 6 months.	6 months and under 9 months.	9 months and under 12 months.	Total deaths under 1 year.
Small-Pox											
Chielron Dow	• • • •	• • • •	•••	•••	•••	• • • •	•••	• • •	• • •	•••	•••
Measles	•••	•••	•••	•••	• • •	•••	•••	•••	•••		
Scarlet Fever	•••		•••	•••	• • •	•••	1	• • •	8	14	23
Whooping Cough	•••		•••	•••	•••	• • •	• • •	•••	•••	•••	
Diphtheria	•••	•••	• • •	•••	•••	•••	,	1	1	$\frac{2}{2}$	4
T., £1.,	•••		•••	•••	•••	•••	1	· · ·	$\frac{1}{2}$	2	4
Tuberculosis of Nervous System	• • •		•••	•••	•••	•••	1	1	2	• • •	4
Tuberculosis of Intestines and P	ori	•••	•••		•••	•••	1	1	4	1	7
t an arres			ĺ								
Other Tuberculous Diseases	•••	• • •	•••	• • •	•••	• • •	***	•••		•••	1
C1-:1:-	•••	1	3		•••	4	•••	1	1	•••	
Meningitis (not Tuberculous)	•••	_		•••	•••		$\frac{3}{2}$	$\frac{1}{3}$	1	1	$\begin{bmatrix} 8 \\ 7 \end{bmatrix}$
Convulsions	•••	5	$\frac{\cdots}{2}$	1	•••		$\begin{bmatrix} 2 \\ 5 \end{bmatrix}$		1	1	$\begin{vmatrix} 7 \\ 15 \end{vmatrix}$
Duonahitia	•••	1		1	$\frac{\cdots}{2}$	$\begin{vmatrix} 8 \\ 4 \end{vmatrix}$	$\begin{bmatrix} \mathbf{o} \\ 8 \end{bmatrix}$	$\frac{1}{c}$	•••	1	$\begin{vmatrix} 15\\29 \end{vmatrix}$
Pneumonia	•••	$\frac{1}{2}$	5	3	4	14	$\frac{\circ}{13}$	$\frac{6}{22}$	$egin{array}{c} 8 \ 25 \end{array}$	$\begin{bmatrix} 3 \\ 24 \end{bmatrix}$	$\begin{vmatrix} 29\\98 \end{vmatrix}$
Inflammation of Stomach	•••	$\frac{2}{2}$				2	10	1			5
Disaboration and The Control	•••	$\frac{2}{2}$	1	 5	4	$\frac{2}{12}$	$\begin{vmatrix} 1 \\ 10 \end{vmatrix}$	$\frac{1}{14}$	13	$\frac{1}{7}$	$\begin{bmatrix} 56 \\ 56 \end{bmatrix}$
Dialasta		_	_	_						•	
Hernia, Intestinal Obstruction	•••	1	•••	•••	•••	1	•••	1	•••	•••	2
Congenital Malformations	•••	18	4	5	3	30	6	$\begin{bmatrix} 1 \\ 4 \end{bmatrix}$		•••	$\left \begin{array}{c} \frac{2}{42} \end{array}\right $
Congenital Debility and Sclerema	•••	10	6	$\frac{3}{2}$	$\frac{3}{3}$	$\begin{vmatrix} 30 \\ 21 \end{vmatrix}$	17	$\frac{4}{2}$	$\begin{bmatrix} 2 \\ 3 \end{bmatrix}$	1	44
Icterus	•••	$\frac{10}{4}$	1			$\begin{bmatrix} 21 \\ 5 \end{bmatrix}$				_	5
D D D	•••	134	19	15	9	177	7	$\frac{\cdots}{2}$	•••	•••	186
Training of Dinth	•••	6	$\frac{13}{3}$		ı i	9		_	•••	•••	9
Diseases of Umbilicus	•••			•••	•••		•••	•••	•••	•••	
Atologtagia	• • •	15	1	$\frac{\cdots}{2}$	•••	18	•••	1	• • •	•••	19
Suffocation, Overlying	•••	$\frac{13}{2}$	1	ا ت	•••	$\frac{13}{2}$	2	1	•••	•••	4
Other Comme	•••	$\frac{2}{5}$	4	4	3	16	$\begin{bmatrix} \frac{2}{6} \end{bmatrix}$	10	7	8	47
Other Causes		9	T					10			
All Causes		208	49	38	28	323	84	71	76	65	619
Number uncertified		•••	•••	•••	•••	•••	•••		•••	•••	Nil.

 Nett Births :—
 Infant Mortality Rate :—

 Legitimate
 ...
 8,145.
 ...
 580.
 ...
 ...
 71.

 Illegitimate
 ...
 293.
 ...
 39.
 ...
 ...
 133.

TABLE VIII.—Deaths and Death-rates per annum per 1,000 persons living, from All Causes and from Specified Causes; Persons living; Deaths and Death-rates at Specified Age Periods during 1928.

75 yrs. and up- ward	82 59 .8	: : : : :
	8 5382 5 1059 7 196·8	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
65 and under 75 yrs.	17188 1215 70.7	200 200 100 100 100 100 100 100 100 100
55 and under 65 yrs.	34437 957 27.8	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
45 and under 55 yrs.	58754 725 12·3	
35 and under 45 yrs.	74420 397 5·3	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
25 and under 35 yrs.	77968 302 3 · 9	:::21 ::21 :: 25
20 and under 25 yrs.	43596 148 3.4	::::::::::::::::::::::::::::::::::::::
15 and under 20 yrs.	49175 137 2·8	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
10 and under 15 yrs.	$\frac{53323}{04}$:::::::-::::-:::::-:::::::::::::::::
5 and under 10 yrs.	51109 131 2.6	: 1
Total under 5 yrs.	50048 964 19·3	113 77 12 13 13 13 15 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18
4 and under 5 yrs.	$\frac{9516}{39}$:œы4 : : :ы4 : :ю :ы : ы ы ы ы : : : : : : : : : : :
3 and under 4 yrs.	8633 35 4·1	[4-w-:::ux:vx :vx vx v
2 and under 3 yrs.	8609 87 10·1	:51 04 to :0. 12 : : : : : : : : : : : : : : : : : :
1 and under 2 yrs.	11856 184 15.5	:: 60 0 4 : 1 : 11 4 1 to 1
Under 1 yr.	11434 619 54·1	23 31 31 32 33 34 35 36 37 38 38 38 38 38 38 38 38 38 38
All Ages.	515400 6099 	1118 24 37 37 10 88 38 38 38 38 436 1605 1605 19 19 294 271 213 413
Death Rates per 1,000		0.097 0.037 0.037 0.037 0.037 0.037 0.0413 0.0413
	stribution of Population (Estd.)	Pox Fever Fever and Cough Fever Tal Fever Tal Fever Tonia Atism, etc. Tous System and Sense Organs Hatory System except Pneumonia Stive System except Diarrhoea and Enteritis To Urinary System except Veneral Disease Veneral Disease A Infaney A Infaney Affections produced by External uses Causes
	Age Dist Deaths Death-ra	Small Po Measles Scarlet F Diphtheri Whooping Enterie F Influenza Puerperal Diarrhoes Pheumat Respirato Other Fo Respirato Other Fo Respirato Other Aff Early Fe Suicide Cause An Cause An Cause Cause Cause An Cause Cause Cause Cause Cause Cause Cause Cause Cause

The distribution of the population over the age-periods is in accordance with the proportions found at the 1921 Census, and should be taken as approximate only, as, obviously, with a falling Birth-rate, the amount of error must be an increasing quantity.

TABLE IX.—Mortality at certain age periods, years 1924-28.

Age Groups.	DEATH 1	RATE PER 1,000	Persons living	AT EACH AGE	of Group.
	1924.	1925.	1926.	1927.	1928.
Under l year	74.8	67.4	61.3	$66 \cdot 5$	$54 \cdot 1$
Infant Mortality Rate*	90	85	79	91	73
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c c} 20.7 \\ 10.9 \\ 6.4 \end{array} $	$ \begin{array}{c c} 16 \cdot 0 \\ 11 \cdot 8 \\ 6 \cdot 1 \end{array} $	$ \begin{array}{c c} 16 \cdot 6 \\ 10 \cdot 1 \\ 6 \cdot 2 \end{array} $	$19 \cdot 0$ $10 \cdot 4$ $7 \cdot 3$	$ \begin{array}{c c} 15.5 \\ 10.1 \\ 4.1 \end{array} $
3 ,, 4 ,, 4 ,, 5 ,,	$2 \cdot 5$	3.4	4.3	$4 \cdot 2$	4.1
Total under 5 years	25.4	22.9	21.6	23.5	19.3
5 and under 10 years 10 ,, 15 ,, 15 ,, 20 ,, 20 ,, 25 ,, 25 ,, 35 ,, 35 ,, 45 ,, 45 ,, 55 ,, 55 ,, 65 ,, 65 ,, 75 ,, 75 years and over	$ \begin{array}{c} 2 \cdot 2 \\ 1 \cdot 8 \\ 2 \cdot 5 \\ 3 \cdot 3 \\ 3 \cdot 9 \\ 5 \cdot 7 \\ 11 \cdot 2 \\ 27 \cdot 4 \\ 61 \cdot 6 \\ 159 \cdot 8 \end{array} $	$\begin{array}{c} 2 \cdot 1 \\ 1 \cdot 5 \\ 2 \cdot 7 \\ 2 \cdot 8 \\ 3 \cdot 8 \\ 5 \cdot 0 \\ 12 \cdot 4 \\ 26 \cdot 1 \\ 65 \cdot 2 \\ 174 \cdot 5 \\ \end{array}$	$ \begin{array}{c} 2 \cdot 5 \\ 1 \cdot 6 \\ 2 \cdot 8 \\ 2 \cdot 9 \\ 3 \cdot 4 \\ 5 \cdot 1 \\ 11 \cdot 0 \\ 25 \cdot 8 \\ 64 \cdot 2 \\ 184 \cdot 5 \end{array} $	$\begin{array}{c} 2 \cdot 3 \\ 1 \cdot 5 \\ 2 \cdot 3 \\ 3 \cdot 6 \\ 3 \cdot 5 \\ 5 \cdot 1 \\ 13 \cdot 0 \\ 29 \cdot 0 \\ 73 \cdot 3 \\ 185 \cdot 9 \end{array}$	$ \begin{array}{c} 2 \cdot 6 \\ 1 \cdot 2 \\ 2 \cdot 8 \\ 3 \cdot 4 \\ 3 \cdot 9 \\ 5 \cdot 3 \\ 12 \cdot 3 \\ 27 \cdot 8 \\ 70 \cdot 7 \\ 196 \cdot 8 \end{array} $
All Ages	11.6	11.5	11.3	12.3	11.8

^{*} Deaths of infants under One Year per 1,000 births.

TABLE X.—Cases of Infectious Disease notified during each month of the year 1928.

Diseases.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Totals.
a un			,	1.5									0.1
Small Pox	. 27	5	1	15	4	2	$\frac{2}{1}$	1	4		407		61
Scarlet Fever	. 237	200	156	163	179	141	164	161	205	394	421	386	2,807
Diphtheria	. 86	103	110	79	65	52	46	37	41	70	66	70	825
Typhoid Fever		3	9	2	4	3	4		6	10	3	4	49
Measles	. 19	17	18	13	7	10	1	1	• • •				86
Erysipelas	. 47	28	40	26	30	22	26	15	27	29	37	35	362
Ophthalmia Neonatorum	. 10	11	7	19	9	8	12	8	7	12	8	11	122
Puerperal Fever	. 6	6	12	3	6	2	10	4	5	11	9	8	82
Puerperal Pyrexia	. 12	16	13	6	5	5	7	8	19	5	9	18	123*
Pneumonia	. 374	289	404	257	222	179	159	88	104	194	157	266	2,693
Cerebro-Spinal Fever	1					1	1		1	1		1	5
Acute Poliomyelitis	1	1				1	2	3	1		2	1	10
Encephalitis Lethargica		1	3	3	1	H [$\frac{1}{2}$	i	1	2	ī		18
Polio-encephalitis		J								1		1	$\frac{1}{2}$
Molorio		1					1					i	ĩ
D 1					•••	1		•••	•••		•••	1	i
Dysentery	-		•••			1	•••		•••	•••	• • • •	•••	1
				1									
Totals	. 822	679	773	586	532	427	43 6	327	421	729	713	802	7,247

^{* 18} cases subsequently notified as Puerperal Fever.

TABLE XI.—Cases of Infectious Disease notified since 1918

Cases	1928.	61	20	10	લ	2,807	825	49	18	362	82	123		122	98	2,693		:	-	_	:	7,247
Annual Averages	10 years 1918-1927.	68	∞	14	:	1,465	681	40	57	286	72	114		217	1,563	2,401		-	63	17	_	7,028
	1927.	667	6	17	_	3,103	865	42	24	319	95	123		114	33	3,154		:	:	4	:	8,570
	1926	157	11	9	:	1,558	1,053	48	41	346	09	*26	(3 mos.)	136	188	2,643		:	:	2	:	6,275
	1925.	44	10	16	:	1,283	820	40	54	388	83	•		215	220	3,219		:	1	છા	:	6,395
	1924.	4	O	53	-	1,334	514	45	337	283	85	•		211	457	3,347		:		1	4	6,686
NOTIFIED	1923.	က	6		•	1,488	505	42	6	251	79	:		228	71	2,832		:	63	10	_	5,523
OF CASES	1922.	11	4	20	:	1,293	647	47	∞	255	61	:		243	1,358			:	1	7	•	6,322
NUMBER	1921.	:	7	12	:	1,017	689	47	14	239	63	:		257	277	1,275		:	61	13	:	3,912
	1920.	:	ರ	9	_	862	591	24	17	242	72	:		302	+1,155	1,759		:	61	21	1	5,060
	1919.	•	_ G	က	:	1,229	514	14	*	287	69	:		219	8,901	*842	(10 mos.)	* ° °	(10 mos.) *5	(10 mos.) *78	(10 mos.)	12,182
	1918.	:	11	9	•	1,486	610	46	:	253	51	:		248	2,972	:		:	:	:	•	5,683
		:	:	:	:	:	•		ica	•	:			rum	•	:		:	:	:	:	:
DISEASE		Small Pox	Cerebro-Spinal Fever	Acute Poliomyelitis	Polio-Encephalitis	Scarlet Fever	Diphtheria	Enteric Fever	Encephalitis Lethargica	Erysipelas	Puerperal Fever	Puerperal Pyrexia		Ophthalmia Neonatorum	Measles	Pneumonia		Trench Fever	Dysentery	Malaria	Continued Fever	Totals

Military Cases are included in the above Table.

† Measles ceased to be compulsorily notifiable 1920.

* Made compulsorily notifiable in this year.

TABLE XII.—Measles. Mortality in Males and Females, and under certain age periods; also Mortality Rates, 10 years 1918-1927 and 1928.

		Rate per	DEA	ATHS.				AGE AT	Dеатн.			
YEARS.	DEATHS.	1,000 Persons living.	Males.	Fe- males.	Under l year.	1 and under 2 Yrs.	2 and under 3 yrs.	3 and under 4 yrs.	4 and under 5 yrs.	5 and under 10 yrs.	10 and under 15 yrs.	Over 15 years.
1918 1919 1920 1921 1922 1923 1924 1925 1926 1927	53 174 115 41 153 10 114 31 71 23	$\begin{array}{c} 0.11 \\ 0.37 \\ 0.23 \\ 0.08 \\ 0.29 \\ 0.02 \\ 0.22 \\ 0.06 \\ 0.14 \\ 0.04 \end{array}$	25 84 57 25 75 60 16 39 11	28 90 58 16 78 5 54 15 32 12	14 50 28 13 40 3 35 7 16 6	12 59 55 18 77 3 45 13 28	11 28 14 4 17 3 18 3 15 4	6 16 8 3 8 1 8 4 6	2 9 4 3 1 1 5 2	8 10 6 3 8 6 3 1 2	 1 1 	1
Average 10 years 1918-1927	79	0.16	40	39 	21	32	12	6	3	5		

TABLE XIII.—Scarlet Fever. Notifications, Percentage of Cases removed to Hospital, Deaths and Percentage Mortality, ten years 1918-1927 and 1928.

Year	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	Average 10 years 1918-1927	1928
Cases Notified	1486	1229	862	1017	1293	1488	1334	1283	1557	3103	1465	2807
Percentage of Cases Removed	90	86	84	91	90	89	91	89	85	64	86	70
Deaths	22	8	6	15	27	11	9	6	10	22	14	24
Percentage Mortality	1.5	0.7	0.7	1.5	2.1	0.7	0.7	0.5	0.6	0.7	1.0	0.9

TABLE XIV.—Whooping Cough. Deaths under Certain Age Periods since 1918.

 _		Ac	GES			1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.	1926.	1927.	Average 10 years 1918-1927	1928.
Uı	nder	· 1 ye	ar .	•••	•••	123	6	31	55	10	61	13	52	9	56	42	4
1 :	and	unde	er 2 j	years	•••	100	4	18	35	14	39	12	30	6	50	31	4
2		,,	3	,,		28	2	7	9	5	13	2	16	2	14	10	3
3		,,	4	,,		15	1	1	1	•••	11	2	8	5	7	5	ı
4		,,	5	,,		10		5	3		2	1	1	3	2	3	•••
O	ver a	5 yea	rs .	•••	•••	12		•••	2	1	6	1	1	•••	3	3	

TABLE XV.—Diphtheria.—Percentage Mortality in Hospital-treated and Home-treated Cases, 1928.

			Hospital Treated.	HOME TREATED.	TOTAL.
Cases Notified			 722	103	825
Deaths	•••	•••	 32	5	37
Percentage Mortality	•••	•••	 4.4	4.9	4.5

TABLE XVI.—Sickness from Puerperal Fever and Mortality from Sepsis and Other Accidents of Childbirth per 1,000 Births, 10 years 1919-1928.

			F	Rate pe	r 1,000	Births.				
Year	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928
Sickness from— (a) Puerperal Fever (b) Puerperal Pyrexia (from $1-10-26$)	6.67	5.48	5 · 29	5.65	7.75	8.75	8.90	6·66 11·54§	11·14 14·43	9·72 14.58
Mortality during Puerperium: Scpsis (including Phlegmasia. Alba Dolens) Other Accidents of Childbirth Total Childbirth	$2 \cdot 61$ $2 \cdot 61$ $5 \cdot 22$	1.52 2.51 4.03	1.51 2.35 3.86	1·76 1·85 3·61	$1 \cdot 37$ $2 \cdot 65$ $4 \cdot 02$	$2 \cdot 47$ $2 \cdot 06$ $4 \cdot 53$	$2 \cdot 25$ $2 \cdot 68$ $4 \cdot 93$	$2 \cdot 33$ $3 \cdot 66$ $5 \cdot 99$	$3 \cdot 64$ $3 \cdot 64$ $7 \cdot 27$	3.79 2.25 6.04

[§] The sickness rate for Puerperal Pyrexia is reduced to 7·10 in 1926, 12·55 in 1927 and 12·44 in 1928, when the cases afterwards notified as "Puerperal Fever" are deducted.

TABLE XVII.—Cases of Infectious Disease notified during the year 1928 shown under certain age periods.

			Numb	er of Case	es Notified	1.		
NOTIFIABLE DISEASE.		11		At Ages-Y	ears.		1	1
DISEASE.	At all Ages.	Under 1 year.	l and under 5.	5 and under 15.	15 and under 25.	25 and under 45.	45 and under 65.	65 and upwards.
Small Pox	. 61	1	•••	32	6	14	8	•••
	. 2,807	9	505	1,825	327	126	15	•••
Diphtheria	00%	12	207	483	78	36	9	• • • •
Typhoid Fever	. 49			8	8	20	13	
	86	3	31	47	3	2	•••	•••
Erysipelas	. 362	9	7	25	37	107	142	35
	. 122	122					•••	•••
	82				20	62	•••	•••
*Puerperal Pyrexia	123		•••	•••	39	83	1	
Pneumonia	2,693	226	855	590	220	341	306	155
Cerebro Spinal Fever	ll l	1	2	1		1	•••	•••
	10	2	4	3	1		•••	•••
	$ \cdot $ 2			1	1		•••	•••
	18		•••	5	4	6	2	1
	. 1			•••	1	•••	•••	•••
Dysentery	11			•••			1	•••
Pulmonary Tuberculosis	1,844		48	748	392	409	229	18
Other Forms of Tuberculosis .	201	8	53	79	28	20	10	3
Totals	. 9292	393	1,712	3,847	1,165	1,227	736	212

^{* 18} Cases subsequently notified as Puerperal Fever. Military Cases included:—Tuberculosis of Lungs, 1.

TABLE XVIII.—Cases of Infectious Disease notified during 1928 shown in Registration Sub-Districts and Sections.

Total Cases removed to Hospital.		61	1984	722	57	43	:	:	:	:	328	:	_	:	:	:	:	2923	125	6214
CILA		61	2807	825	49	98	362	122	85	123	2693	ಬ	10	63	18	_	_	1844	201	9292
NORTON		લ	139	18	01	01	17	∞	10	91	85	:	:	:	<u>01</u>	:	:	37	15	350
ЗНАВКОМ		:	113	46	_	က	7	က	©1	ಣ	901	:	:	_	_	:	:	94	10	397
44	Я	:	56	15	_	67	73	_	_	_	53	:	:	:	:	:	:	27	5	113
BROOMHALL	A	:	55	38	:	_	9	ତୀ	<u>01</u>	_	14	:	:	:	:	:	:	72	9	254
SOUTH ECCLESALL		24	234	85	4	රි	27	5		67	104	:	ಣ	:	4	_	:	118	12	636
MEST CENTRAL ECCLESALL		i			က			6				:	:	:	:	:	:	901	23	650
нтяои	В							10			119	:	:	:	:	:	:	74	∞	344
ECCLESALL	A	-	41	18	_		10	,C	9		_	:	:	:		:	:	40	ಣ	861
ECCIESEIEID		:	36	6	_	:	5	:	:	_	15	:	:	:	:	:	:	13	ಣ	83
HILLSBORO		က	120	21	_	_	x	©1	©1	67	58	:	:	:	:	:	:	33	ũ	262
LINSPEX		c1	33	50	_	:	<u></u>	:	_	:	24	:	:	:	_	:	:	53	50	108
нуирамовтн		:	89	47	_	_	9	1	က	20	73	:	:	_	_	:	:	51	50	i
DARMALL		က	373	44	က	4	27	14	9	<u></u>	387	_	_	:	©1	:	:	[6]	1	1046 269
	В	0.1			:			_				:	:	:	:	:		36		212
VLLEBCLIEEE	A	:	112	21	:	67	1	က	က	5	001	:	:	:	_	:	:	82	∞	868
	В	15	195	53	4	12	19	9		5	178	:	_	:	_	:	:	157	∞	661 3
BEIGHLZIDE EVZL	∢ I	-		15	07	4	ī:	ಣ	က	က		_	:	:	:	:		80	4	327 (
	В		981	51	က	67	23	4	50		134	©1	_	:	_	:	:	93	7	520
BEICHLZIDE MEZL	4—	2	118	59	6.1	9	22	16	<u>10</u>	4	150	:	_	:	_	:	:	115	14	485
	B	2	180	44	:	_	20	<u>01</u>	:	70	177	:	Ø1	:	7	:		03		544
PARK	A	:	64	ဗ	က	:	×	\(\int \)	_	:	8	_	:	:	:	:	:	50	4	226
	Ö	-	30	15	_	_	4	:	:	:	21	:	:	:	:	:	:	24	_	86
HTUOS	<u>В</u>	:	24	6:1	:	:	ಣ	_	:	:	45	:	:	:	_	:	:	38	_	132
	A	:	54	40	:	4	14	9	20	37	117	:	:	:	:	:	:	53	11	341
	0	:	33	10	:	:	9	4	©1	:	40	:	:	:	:	:	:	41	_	143
NORTH.	B	-	58	23	ಣ	:	13	1	4	_	135	:	_	:	:	:	:	94	12	352
	A	-	54	25	<u>01</u>	6		:	:	:	42	:	:	:	:	:	:	27	4	143
		:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	sis	
NOTIFIABLE DISEASE.		Pox	Scarlet Fever	Diphtheria	Enteric Fever	sə	pelas	Ophthalmia Neonatorum	Puerperal Fever	*Puerperal Pyrexia	Pneumonia	Cerebro-Spinal Fever	Acute Poliomyelitis	Polioencephalitis	Encephalitis Lethargica	ia	ntry	Respiratory Tuberculosis	Other Forms of Tuberculosis	Totals
		Small Pox	Scarle	Dipht	Enter	Measles	Erysipelas	Ophtl	Puerp	*Puer	Pneul	Cereb	Acute	Polio	Encel	Malaria	Dysentry	Respi	Other	

Military Cases included: Tuberculosis of Lungs, 1.
* 18 Cases subsequently notified as Puerperal Fever.

TABLE XIX.—Vital Statistics of whole District during 1928 and previous years.

0,1	Ages.		Rate.	11.5	11.6	$11 \cdot 5$	11.3	12.3	11.8
BELONGING 1	At all Ages.		Number.	6,012	6,110	6.078	5,927	6,436	6,099
NETT DEATHS BELONGING TO THE DISTRICT	ear of Age.		Kate per 1,000 Net Births.	06	06	88	. 62	91	73
	Under 1 Year of Age.		Number.	915	871	788	712	774	619
ERABLE	of Resi-	dents not	registered in the District.	237	243	526	215	248	247
TRANSFERABLE DEATHS	of Non-	residents	registered in the District.	263	278	333	310	338	362
EATHS	D IN THE RICT.		Rate.	11.5	11.7	11.7	11.5	12.4	12.1
Total Deaths	REGISTERED IN THE DISTRICT.		Number.	6,038	6,145	6,185	6,022	6,526	6,214
	Nett		Rate.	19.4	18.5	17.7	17.2	16.2	16.4
BIRTHS.	Z		Number	10,195	9,712	9,321	9,013	8,526	8,438
		Un-	corrected Number.	10,271	9,817	9,461	9,158	8,684	8,586
	Doput Arrow	estimated to	Middle of each Year.	524,200	525,000	526,900	523,300	524,900	515,400
				:	:	:	:	•	:
		YEAR.		1923	1924	1925	1926	1927	1928

NOTE. —This Table is arranged to show the gross births and deaths in the district, and the births and deaths properly belonging to it, with the corresponding rates. The rates have been calculated per 1,000 of the estimated gross population.

TABLE XX.—Causes of Death at Different Age-Periods in each Sex, during the year 1928.

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TOTALS—ABOVE FIVE YEARS.	N.	-	بى دى 	: :	:	:	: :-	1 9	: 9			10 1			4		· ·
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S5 years & upwards.	М.			: :	:		:::	: :	• •		:			:	:	•	: :
nder 8			::	• •	:	:		: :	: :			ಣ		•	<u>67</u>		
75 & under 85 years.	M.			• •	:	:	: :	: :	: :		:	:		:	<u>01</u>	: :	• •
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65 & under 75 years.	N.		::	: :	:	:	: :	: :	: :			4		7	:	: :	: :
55 & under 65 years	24	_		: :	:	:		: :	::		6.1	Ç1		•	•		
			: ⁻ -	: :			::	::	: :			4	•		:		
15 & under	F.		::	::	:	:	: :	: :	: :						:	: :	-
			:	: :	:	:	: :	: :	: :		- 81	<u> </u>			:	: :	•
35 & under 45 years.	M. F	-	કો -≃	:::	•		::	: :	• •			:		ł	:		•
der 35	E.	-	::	::	:	:		. =	:-		:	:			:		
25 & under 35 years.	M.		≈ :	: :	:	:	: :	: -	: :			:			:	: :	
25 years.	þ.		::	: :	:	:	: :	: :	: :		:	:	_	1	:	: :	
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15 & under 20 years.	Ex.		::	: :	:	:	: :		: :		7	_			: :	• •	
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5 & under 10 years.	H		::	: :	· :	:	: : -		: : ::5		· :	· :	•		· ·		-
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& under 5 years.	55,		::	: :	:	: :	: 20		3:		<u>:</u>	<u>:</u>			: :	•	
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TOTALS—ALL AGES.	M.		10 CI	:	:	::	:5	10	16		21	12	[~	ч	1 :	•	:
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TH.		GENERAL DISEASES (Epidemic, Endemic and) infectious Diseases.	- er Fever	er Obermeieri.")	rever	A. Malarial FeverB. Malarial Cachexia	: :	:	: :	- 1		pun ons nary	dmo ons			:	
CAUSE OF DEATH		GENERAL DISEASES (Epidemic, Endemic and)		ver n Ok		A. Malarial Fever B. Malarial Cachex	: :	Scarlet Fever Whooning Cough		iona.	ons	complications tout pulmonar	plications— (th non-pulmore complications	stat	ي د		era
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CAUS		Infect	eric J yphc araty araty	psin Spir	ria-	Male Vala	ll Pc sles	let I	Diphtheria	th]	pli Vith	co thou	Vith	Vith car	ary l	aps	tic (
		G. G.	Enteric Fever—A. Typhoid Fever B. Paratyphoid Fe Typhus Fever	Relapsing Fever ("Spirillum O	Malaria—	A. B. 1	Small Pox Measles	Scar			plications (2) With other	complications B. Without pulmonary	plications— (1) With non-pulmonary complications	(2) Without stated cations	Miliary Fever	Mumps	ABIa
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TABLE XX.—Continued.

OVE 3S.	Totals		:	:	: :		: :		:	:	;		o o	7	7	1		:	:	:	:	:	:	:
S—AB YEAI	<u>F</u>		:	:	: :		: :		:	:			ب	:	: 10	· :		:	:	:	:	:	:	:
TOTALS—ABOVE FIVE YEARS.	ix		:	:	: :		: :		:	:		:	+		- 10		_	:	:	:	:	:		:
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CAUSE OF DEATH.		DISEASES OF THE CIRCULATORY SYSTEM—Contd. (8) Disordered Action of the	Heart (9) Heart Disease (undefined) 91. Diseases of the Arteries—	A. Aneurysm B. Arterio-Sclerosis—	Lesion	c. Other Diseases of the Arteries	92. Embolism and Thrombosis	93. Discases of the Veins(Varix, Hamorrhoids, Phlebitis, etc.)	System (Lymphangitis, etc.)		96. Other Diseases of the Circulatory System	Totals—Discases of the Circula- tory System	V.—Diseases of the Respirators. Diseases of the Nasal Fossæ and Annexa— (1) Diseases of the Nose (2) Diseases of the Accessory Nasal Sinuses

TABLE XX.—Continued.

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CAUSE OF DEATH		DISEASES OF THE RESPIRATORY SYSTEM—Contd. 98. Diseases of the Larynx— (1) Laryngismus Stridulus (2) Laryngitis (3) Other Diseases of the	99. Bronchitis— A. Acute Bronchitis B. Chronic Bronchitis Chronic Bronchitis	as Acute or Chronic 100. Broncho-Pneumonia 101. Pneumonia (Lobar or not	otherwise defined)— A. Lobar Pneumonia B. Pneumonia (not otherwise	defined)	(1) Empyema (2) Other Pleurisy	Gangrene of the Lung	Asthma Pulmonary Emphysema Other Diseases of the Res-	A. Chronic Interstitial Pneumonia including Occupational Disease of Lung B. Diseases of the Mediastinum

TABLE XX.—Continued.

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CAUSE OF DEATH.		EXTERNAL CAUSES—Contd.	198. Homicide by Cutting or Piercing Instruments		202. Other and unstated forms of Accidental Violence;	203. Violent Deaths of Unstated	Nature and cause (i.e. Accidental, Suicidal, etc.)	Totals—External Causes.	XV.—Ill-Defined Diseases.	204. Sudden Death 205. Cause of Death unstated or	(1) Heart Failure (age 1-70) (2) Other ill-defined causes (3) Cause not specified	Totals—IU-defined Diseases	GRAND TOTALS

CITY HOSPITALS.

Statistics have been furnished by Dr. Egerton H. Williams, Medical Superintendent of the City Hospitals, with regard to hospital treatment during 1928 and previous years, also in reference to bacteriological and other examinations carried out during the year by the staff, as follows:—

			TA	BLE	XXI	[.— <i>L</i>	aily	Averag	ge N	umber	r of Pa	tients	s in	the C	ity I	Iospi	itals.			
	Date.		Aug. 26	April 29	Jan. 22	Nov. 9	April 29	Jan. 10	Sept. 10	Aug. 14	July 2	Aug. 28	Aug. 29	Sept. 4	Aug. 18 & 21	Sept. 8	Aug. 28	June 28	Aug. 30	Aug. 31
	Number in any	one day.	191	191	366	364	354	356	379	381	285	339	353	367	392	442	465	536	909	517
	Date.		Mar. 31	Jan. 6	Dec. 13.	Mar. 5 & 10	Nov. 18 & 20	Jan. 29	Dec. 29 & 30	Jan. 17	Oct. 23	May 29	Dec. 20 & 22	May 4	Feb. 8	June 1	Nov. 27	Dec. 29	Jan. 28	Dec. 29 & 30
	Number in any	one day.	351	319	559	554	206	482	266	574	501	570	563	292	572	588	639	716	843	712
; ;	Average Cases in the	CityHospitals	255.7	312.2	466.6	464.2	410.3	417.7	456.5	473.5	360.98	446.48	461.15	480.3	505.9	526.05	535.3	616.1	682.12	610.91
	Contact Cottages.	Edmund Road.	:	:	:	:	:	:		•	:	•	*	:		•	1.78	2.9	20.9	:
91	Cot	Dart Square.	:	:	:	:	:	:	:	:	:	•	*	*		:		•	1.71	1.47
n each of th	Moor End.		19.2	19.6	24.5	25.8	28.7	27.23	27.96	32.75	41.75	41.76	40.66	40.8	40.7	38.18	42.2	43.05	42.56	43.06
Daily Average Number of Cases in each of the City Hospitals.	Winter Street.		:	20.4	(6 months) 68.8	0.94	Entirely under Military	Control Military 95.7	Military 111.81	Military 90.13	Multary and Consumptives *37.31	Consumptives 92.04	91.74	92.1	97.2	102.5	105.32	105.04	104.14	105.12
y Average	Crimicar Lane.		18.8	19.4	24.5	27.0	78.2	91.18	93.16	98.65	100.36	102.59	6.66	102.0	106.9	103.28	107.1	107.6	108.99	108.73
Dail	Redmires Camp.		:	•	:	÷	:	•	:	:	:	:	:	:	:	:	1.43	13.86	45.17	5.96
	Lodge Moor.		217.7	252.8	348.8	335.4	303.4	203.6	223.58	252.05	211.56	210.09	228.85	245.4	261.1	282.09	277.5	339.86	373.48	346.57
	Year.		11611	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928

*Military Cases—100·76, 6 weeks. Consumptive Cases—60·73, 5 months.

TABLE XXII.—Showing the Notifications, Percentages of Cases admitted, and Death Rate, for the Three Principal Diseases.

	Not	tifications.		Perce Admitte	entage of (d on Notif	Cases ications.		Death Rate Calculated on	
Year.	Scarlet Fever.	Diph- theria.	Enteric Fever.	Scarlet Fever.	Diph- theria.	Enteric Fever.	Total	Total completed Cases.	
1903	2,114	492	345	67 · 3	44.2	75.2	$62 \cdot 2$	5.06	
1904	2,906	400	348	76.8	53.3	72.2	67.4	4.4	
1905	3,087	407	322	$69 \cdot 5$	$52 \cdot 5$	71.9	64.6	4.1	
1906	4,905	675	390	63.3	50.9	81.0	65.08	4.6	
1907	2,358	431	212	72.7	48.4	75.0	65.3	4.9	
1908	1,404	438	237	80.6	$62 \cdot 7$	75.5	72.9	4.1	
1909	1,532	376	175	81.2	66.3	76.2	74.5	3.6	
1910	1,356	401	124	78.6	69.3	79.2	78.6	3.7	
1911	1,385	505	253	84.5	74.4	80.2	79.7	$4 \cdot 3$	
1912	1,741	548	164	90.6	77 · 1	80.4	86.9	3.8	
1913	3,512	831	73	68.4	$67 \cdot 7$	61.6	68 · 1	3.3	
1914	3,131	846	114	74.8	71.6	72.8	74.1	3.9	
1915	2,163	1,006	102	82.9	78.03	84.3	81.38	3.8	
1916	847	817	69	87 · 1	$84 \cdot 7$	73.9	85.4	4.4	
1917	1,170	545	55	88.4	89.3	83 · 6	88.5	3.8	
1918	1,491	615	45	89.6	91.7	86.6	90.1	3.3	
1919	1,230	513	16	85.36	87 · 9	93.75	86.18	1.8	
1920	866	600	25	84.52	88.33	88.0	86 · 1	$2 \cdot 2$	
1921	1,013	685	47	90.8	88.46	74 · 46	89.45	$2 \cdot 2$	
1922	1,296	648	47	88.96	88.11	68.08	88.19	$4 \cdot 02$	
1923	1,490	502	42	87 · 24	91.43	71.42	87.95	1.78	
1924	1,332	515	45	89.8	91.4	71.1	89.8	1.74	
1925	1,285	825	40	88.4	93.21	72.5	89.9	2.33	
1926	1,563	1055	47	84.5	93 • 2	63.8	87.6	2.8	
1927	3,111	866	44	63.7	90.3	56.8	69.3	1.87	
1928	2,813	826	49	70 · 17	87.5	55.1	73.86	1.69	

Owing to lack of accommodation, a number of Scarlet Fever cases were not removed.

During the year there were several severe cases of Scarlet Fever, but owing to the valuable results obtained by the use of Scarlet Fever Anti-Streptococcus Serum the mortality rate was only increased to the extent of $0 \cdot 16\%$ over the previous year.

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1928	Day	38.	58.	42.8	33.	33.5	25.4	40.2
Average for 10 years	Days.	43.72	48.06	53.78	30.19	*32.33	26.13	38.99
1927.	Days.	38.78	63.56	45.12	29.0	35.35	28.94	42.03
1926.	Days.	43.26	57.35	59.59	2.65	35.97	28.07	43.5
1925.	Days.	42.92	45.35	58.18	28.0	31.97	25.39	38.18
1924.	Days.	43.7	52.06	58.2	34.6	31.52	26.2	38.8
1923	Days.	44.34	52.95	36.7	34.8	32.62	27.98	40.66
1922.	Days.	42.6	43.4	61.1	28.1	30.6	26.6	37.5
1991.	Days.	47.5	43.2	56.1	37.1	28.3	28.1	38.5
1920.	Days.	46.4	40.3	55.3	26.8	:	25.0	35.9
1919.	Days.	42.3	39.0	59.8	29.1	:	24.3	36.0
1918.	Days.	45.4	43.5	47.8	25.2	:	20.8	38.9
DISEASE.		Scarlet Fever	Diphtheria	Enteric Fever	Measles	Pneumonia	Other Diseases	Total for all Diseases

* Average for 7 years only.

BACTERIOLOGICAL WORK CARRIED OUT AT LODGE MOOR HOSPITAL.

Bacteriological work has been entirely done by the Resident Medical Officers at Lodge Moor Hospital. Media on which organisms are grown has been prepared in the Laboratory as in previous years.

Examinations carried out during Year 1928.

Swabs (Throat and Nasal) and Stati	m Sn	nears		• • •	
Special Examinations of Urines				• • •	 96
Blood Examinations				• • •	 15
0 1 0 1 171 1					 12
Pneumonic and Tubercular Sputum		• • •		•••	 24
TITLE I TO COLOR TO 1 1 1 1				• • •	 12
Pleural Effusions	• • •	•••	• • •	• • •	 25

SANITARY ADMINISTRATION.

GENERAL SANITARY WORK.

TABLE XXIV.—Summary of Work done by Sanitary Inspectors during 1928.

Details of Work done	No. 1 District	No. 2 District	No. 3 District	No. 4 District	No. 5 District	No. 6 District	TOTAL
(1) Premises visited on account of Nuisances	1,838	2,456	4,188	719	3,627	4,153	16,981
(2) Premises where Smoke Test applied to Drains	169	160	125	16	76	67	613
(3) Premises where Water Test applied to Drains	213	499	322	71	261	386	1,752
(4) Premises where Colour Test applied to Drains	101	103	78	9	109	37	437
(5) Visits to work in progress	3,353	3,984	1,928	854	4,138	2,715	16,972
(6) Miscellaneous Visits	5,055	8,684	8,458	1,632	10,650	9,005	43,484
(7) Interviews with Owners	341	439	464	248	666	394	2,552
(8) Nuisances abated	2,029	2,575	2,857	552	2,777	2,754	13,544
(9) Yards paved	116	24	565	28	199	154	1,086
(10) Visits for Zymotic Diseases	520	647	1,023	457	965	776	4,388
(11) Visits for Disinfection of Premises	303	506	709	295	684	597	3,094
(12) Visits to Milkshops and Cowsheds	235	95	126	145	189	298	1,088
(13) Visits to Butchers' Shops and Slaughterhouses	809	1,783	1,079	642	3,310	1,120	8,743
(14) Visits to Offensive Trades	49	94	76	74	376	247	916
(15) Notices Served (a) Statutory	205	596	767	73	546	244	2,431
Do. (b) Informal	1,270	3,128	2,560	740	3,141	1,428	12,267
(16) Proceedings taken	••	24	12	1	27	1	65

Note—Districts re-arranged on 1st October, 1928, six districts taking the place of five into which the City was previously divided. The figures for No. 4 District are for a period of three months only.

In addition to the visits shown at No. 10 in the above Table, 227 visits were paid to Small Pox Contacts by the Staff of Women Inspectors.

HOUSING OF THE WORKING CLASSES.

It is still impracticable to apply all the powers contained in the Housing Acts on account of the impossibility of re-housing those who occupy houses which are unfit for habitation and which ought to be condemned. The following statement shows the result of the action taken:—

Fourteen Representations under the Housing Act, 1925, were made during the year. They had reference to the following properties:—

1, 2, 3, and 4 in Court 2, Cumberland Street; 5, 6, 7, 9, 10, 11, 12, 13, 14, 15, 16, 17 and 18, Canal Cottages, Tinsley Park Road; 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18 and 19, Wharf Road, Tinsley; 28 and 30, and 1 and 2 in Court 4, Paradise Street; 1 and 2 in Court 4, and 62, Doncaster Street, and 43, Matthew Street; 1, 2, 3, 4, 5, 6 and 7 in Court 14 and 50, 52 and 54, Hoyle Street, and 4, 6, 8 and 10, Malinda Street; 1, 2, 3, and 4 in Court 1, and 81 and 83, Wicker, 4, 6, 8, 10, 12 and 14, Andrew Street, 36, 38 and 40, Wicker Lane, and 7, Scholey Street; 1, 2, 3, 4, 5, 6, 7, and 8 in Court 35, Upper Allen Street; 2 and 3 in Court 23 and 125, Martin Street; 37, 39 and 41, Leicester Street; 76 and 78, Upper St. Philip's Road; Four Cottages known as Fox Hill Cottages, Fox Hill Road; 15 and 17, Ben Lane; 1, 2, 3 and 4 in Court 7 and 23 and 29, Radford Street.

Closing Orders were made in respect of the foregoing houses, with the exception of the four cottages known as Fox Hill Cottages, (negotiations are pending in this case, and the matter is in abeyance), and 2 and 3 in Court 23 and 125, Martin Street. In the latter case the requirements of the Department have been voluntarily complied with, and two of the houses have been closed.

Demolition Orders were made with respect to 1, 2, 3 and 4 in Court 2, Cumberland Street. The houses were demolished in August, 1928.

The following statement summarises the action taken under Part II. of the Housing Act, 1925, with regard to Reconstruction Schemes.

1929, with regard to neconstruction scheme	· .			
Description of Area.		DATE OF ORDER OF MINISTRY OF HEALTH CONFIRM- ING SCHEME.		Remarks.
Duke Street, Crown Alley Lane and Bard Street Area. (41 houses involved)	• •	Sept. 22nd, 1926	• •	Area cleared All tenants gone to Wybourn Estate.
Matthew Street and Queen's Row Area. (101 houses involved).	• •	Sept. 22nd, 1926.		Do.
River Lane and Creswick Walk Area. (31 houses involved.)		July 6th, 1927.		Do.
Lambert Street, Furnace Hill and Scotland Street Area. (126 houses involved).	• •	May 7th, 1928.	• •	A considerable portion of the area has been cleared.
Bailey Street, Townhead Street Area (95 houses involved)		_		Proceedings pending
Spring Street Area (174 houses involved)	•			Do.

Particulars with regard to the work will be found in table XXVII.

1,900 new houses were certified during the year 1928, as against 2,112 in 1927, 2,536 in 1926, 2,050 in 1925, 887 in 1924, 665 in 1923, 979 in 1922, and 1,031 in 1921.

During 1928 there were 4,060 marriages and 2,399 more births than deaths. The over-crowding in the City is still deplorable.

The number of families on the waiting list of the City Treasurer for Municipal houses was, at the time of going to print, 7,000.

Very numerous applications of a most pathetic description are received at this office, of which only a very small number can be entertained. Unfortunately, this has led in many cases to subletting by tenants of the Corporation, and already owing to this fact conditions are being created in some of the Corporation Estates which are most undesirable, but which it is impossible for the Treasurer's Department to control until the population can be adequately housed. The City Treasurer is, however, dealing as far as possible, and without avoidable delay, with all cases in which defects or abuse by tenants of the property are reported by the Medical Officer of Health, and is co-operating in every way with the efforts of the Health Department to prevent the development of insanitary conditions.

The following table shows the number of dwelling houses certified for human habitation since 1886, the figures being for the Municipal year ending 31st March—thus the number for the year 1928 means the number certified during the year ended 31st March, 1929.

TABLE XXV.—Houses Certified since year 1886.

Year ending	Houses	Year ending	Houses	Year ending	Houses
March.	Certified	March.	Certified	March.	Certified
1886 1887 1888 1889 1890 1891 1892 1893 1894 1895 1896 1897 1898 1898 1899 1900	725 928 806 830 903 692 786 822 632 523 1,059 1,443 2,273 2,650 2,876	1901 1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914 1915	2,118 1,977 2,051 1,963 1,982 1,904 1,753 1,778 1,469 1,243 866 703 542 570 399	1916 1917 1918 1919 1920 1921 1922 1923 1924 1925 1926 1927 1928	397 57 8 78 413 1,165 814 646 1,061 2,178 2,714 1,897 1,926

The following table shows the number of new houses certified as fit for human habitation by the Chief Building Surveyor during each calendar month from the Armistice to the end of March, 1929.:—

TABLE XXVI.—Houses certified each month since the Armistice.

PERIO	D	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929
January			Nil	18	43	81	25	54	95	116	215	46	126
February			Nil	9	34	140	100	44	111	111	173	44	258
March			Nil	23	119	109	40	48	114	221	238	321	53
April			Nil	30	48	99	41	29	165	170	113	46	• • •
May			Nil	2	31	126	58	34	153	228	189	87	• • •
June			Nil	43	70	98	55	84	115	124	172	75	
July			1		47	172	36	69	173	367	173	148	
August			Nil	17	43	30	35	86	183	47	225	120	• • •
September			Nil	10	122	4	27	65	230	342	300	151	
October			Nil	67	89	54	62	122	257	423	175	243	
November		Nil	Nil	6	215	44	44	90	259	258	76	235	
December		1	27	42	170	22	142	162	195	129	63	384	

Of the 1,926 houses certified in the last 12 months of the period given in the table, 904 were erected by the Corporation.

During the year under review the work of repaving back yards has received special attention, and 1,086 yards have been completed. In my opinion this is one of the most important practical sanitary reforms, as it can constantly be seen that when an unpaved and dirty backyard is put in good condition the effect is to improve sanitary conditions and cleanliness of the whole interior of the houses using such yard.

The whole cost of this work falls upon the property owners, and there are many cases of small owners where the expenditure involves considerable hardship or where the money actually cannot be found. This naturally interferes very much with the progress of the work.

The City Council agreed to the recommendation of the Health Committee that in suitable cases this work might be carried out at the cost of the Corporation, and the amount repaid by the owner by instalments to be approved by the Committees concerned. This arrangement has greatly facilitated this most important sanitary reform during the last few years.

TABLE XXVII.—HOUSING.—1928.

							JSES.	LLING-HOU	of Dwei	SPECTION	l. In
16,981	Public	under I 	efects (using d	for hou	spected	g-houses in	of dwellin ousing Act	al number alth or Ho	(1) Tota Hea	
269	which ations,	bove) Regula	l (1) a dated	ıb-head Consoli	der Su	uded un	ouses (inclorded under	welling-ho	nber of d re inspecte 25	(2) Nur wei 192	
~00	jurious	s or inj	ngerou	e so da	ı a stat	to be in	uses found	welling-ho	nber of dv		
171	• • •	•••	•••	•••					health as t		
6								b-head) for	nber of d ceding su man habit	pre	
			S.	NOTICES	RMAL N	of For	T SERVICE	s WITHOU	F DEFECTS	MEDY O	2. Re
10,880	formal	e of inf	equence 	n conse					r of defect ion by the		
							OWERS.	CUTORY PO	DER STAT	TION UN	3. Ac
			_	t 1925-	ing Act	ne Housi	tion 3 of t	under sect	oceedings	A.—Pro	
10	served	were s	notic e s 	which r	ct of v	n respec	ng-houses	of dwellir g repairs	Number requiring	(1)	
	vice of	er serv	fit aft	ndered	ere rei	which w		notices :—		(2)	
1 —	•••	•••	•••	wners	 alt of o	in defau	S Authority	By owner By Local	, ,		
			_			-	•		Number operative i	• •	
						Acts—	blic Healtl	under Pul	oceedings	B.—Pro	
2,431	served	were s	notices	which 1	ct of v	_	ng-houses to be reme		Number requiring	(1)	
	d after	${f medied}$	ere rei	ects w	ch def		ing-houses mal notice		Number	(2)	
2,722 1	•••	•••		 f owner	 fault of	 tv in def	ners	a) By owr b) By Loc	`		
		1925—							ceedings i	C.—Pro	
									Number		
14		•••	• • •	•••	•••	•••	•••	•••	Orders		
92	s were	Orders	losing	vhich C	ct of w	n respec	ng-houses	of dwellin	Number made	(2)	
	Orders						lling-house the dwellin		Number were de	(3)	
4	Orders	lition (Demo	which	ect of	in respe	ng-houses		Number were ma	(4)	
4	olition	f Demo	ance of	pursua	hed in	demolisł 	ng-houses	of dwelling	Number Orders	(5)	
									OTGOID		

CANAL BOATS ACTS.

The number of inspections of Canal Boats during the year was 239. On the whole the boats were in fairly good condition.

The total number of infringements complained of was 52, relating to 36 inspections of boats. The infringements complained of were :—

Absence of certifica	te					 	 24
Certificate not iden	tifying	owner				 • •	 3
Want of marking, le	etterin	g or nur	nberii	ng		 	 9
Painting of cabins						 	 8
Repairs to cabins						 	 8
					•		_
		Total i	nfring	gements		 	 52

Five of the boats which have been inspected since infringements were complained of were found to have been put in order. In a number of instances owing to change of ownership, the certificates were found to be absent on first inspection, but on subsequent inspection this infringement had been remedied.

It was not found necessary to institute legal proceedings with regard to any infringement.

Two written Notices relating to infringements were served during the year, and these have been complied with.

A number of verbal notices were given to Masters or Owners who promised compliance, and ten letters were sent to Owners.

There was no case of infectious disease on board any boat during the year.

No boat was detained for cleansing or disinfection during the year.

The number of boats on the Sheffield register on 31st December 1928, was 72, made up as follows:—

(a)	Boats believed to be i	n actual	l and pr	resent ı	ase		 	6
(b)	Boats not seen since	1916				• •	 	14
(c)	Boats not seen since	1911					 	52

No boat was registered during the year.

Visits to the canal during the year totalled 51. The canal was closed between Sheffield and Tinsley for two weeks during the year for repairs to the Tinsley Locks.

The number of persons living on board at the time of inspection was as follows:—

Males over 14 years of age		 			 307
Females over 14 years of age		 			 16
Children between 5 and 14 years	s of age	 • •		• •	 42
Children under 5 years of age	• •	 	• •		 44
			Total		 409

The average number of occupants per boat was 1.7. Of the 239 boats inspected 42 were boats registered under the Merchandise Shipping Acts by the Board of Trade. These boats were found to be in good order, and in compliance with the requirements of the Canal Boats Acts.

BLACK SMOKE NUISANCE.

A conference between representatives of the Sheffield and Rotherham Corporations was arranged in Feburary, 1927, for the purpose of setting up a Joint Committee under the "Public Health (Smoke Abatement) Act, 1926."

The Committee was duly appointed and from 1st July, 1927, joint action has been taken in respect of smoke nuisances.

Particulars are given below with regard to the work during the year 1928. The particulars include work in the Rotherham area.

Proceedings were taken in fifteen cases as follows:—Seven steel manufacturers, one rolling mill, one flour miller, one brewer, two collicry proprietors and three steam wagon drivers. The results of the proceedings were as follows:—fines were imposed as follows:—£6, £5, £5, £3, and £1; in seven cases orders were made with costs; three cases were dismissed.

TABLE XXVIII.—Details of work done by Smoke Inspectors during the year 1928—

Number of	observations of ch	hour	 	 	7,084			
Average nu	mber of monutes o	hour	 	 	2.4			
Number of	complaints receive	d				 • •	 	87
,,	chimneys erected						 	5
,,	chimneys raised							9
,,	chimneys demolish	ed			• •			2
,,	intimations scrved							269
	notices served							77
2.2	firms visited to ad	vise						392
1,	proceedings during	the						15
	ties imposed		•			• •		£20
-	penalties imposed							£4

CONVERSION OF PRIVIES INTO WATER-CLOSETS.

During the year, 213 privies were converted, including 47 abolished where no water-closet was substituted. 28 additional water-closets were provided. The corresponding figures for 1927 were 1598 and 114 respectively.

As a result of the local Act 1928, active steps have been taken for the conversion of trough closets and waste water closets. The result of this action will be specified in my Report on the current year.

The number of sanitary conveniences at 31st December, 1928, was approximately as follows:

(a)	Privies with fixed recepts	cles					 566
(b)	Privies with movable rece	eptacle	s (knov	vn as p	ail clos	ets)	 197
(c)	Fresh water closets		• •				 94,240
(d)	Waste water closets						 1.537

The work of Conversion of Privies was completed during the year 1928, with the exception of those cases in which, owing to the enormous cost involved in providing adequate drainage or water supply, proceedings were for the time being abandoned. Most of these properties are dairy farms situated outside the built-on areas and are under rural conditions. As opportunity presents advantage is taken of the provisions of the Milk and Dairies Order, 1926 for effecting improvements in sanitary conveniences on dairy farms.

Full particulars with regard to the work will be found in Table XXIX.

TABLE XXIX.—Conversion of Privies into Water Closets.

Expenditure by Corporation, being One-third Cost or in lieu of One-third Cost of	(12)	£ 77,463	6,364	698'9	10,173	4,640	321	183	93	4,735	13,956	9,742	9,488	10,117	17,686	19,095	16,422	11,984	876	
Contributions to Owners in lieu of One-third Cost of Conversions.	(11)	31,053	2,228	2,092	3,295	1,963	270	164	44	1,082	3,457	4,107	3,241	3,269	6,026	7,390	6,821	6,585		
Cost of Additional Closets erected by the Corporation.	(10).	£ 23,258	266	771	803	151	:	:	:	1,183	3,472	1,393	1,008	1,025	1,875	2,004	1,762	643	44	
Cost of Conversions executed by the Corporation.	(6)	£ 142,885	12,414	14,012	20,799	8,020	169	57	148	10,944	31,448	16,904	18,627	20,641	34,941	34,848	28,672	16,480	790	
Number of Additional Water Closets erected by Owners and by the Corporation.	(8)	4,297	117	131	127	78	11	:	-	18	136	87	101	73	1111	147	167	114	28	
Number of Privies converted by Owners and by the Corporation.	(7)	20,739	1,349	1,589	1,822	1,538	182	46	23	175	731	805	775	086	1,438	1,993	1,820	1,598	213	
Number of Workshops involved.	(9)	1,097	25	16	36	19	_		1	છા	4	13	21	25	32	29	30	20	1	
Number of Houses involved.	(5)	42,029	2,321	2,586	2,940	2,528	301	70	43	182	1,070	1,155	1,215	1,380	2,027	2,570	2,373	2,033	213	
Number of Premises where Work has been Completed.	(4)	6,685	482	531	628	572	52	21	∞	79	259	260	263	376	565	810	905	759	68	
Number of Notices to provide Additional Accommoda-tion.	(3)	2,712	58	47	74	%	1	_	-	109	220	82	152	186	384	243	262	126	23	
Number of Notices served to Convert.	(2)	8,350	453	360	929	116	1	67	9	272	394	191	246	435	913	901	1016	343	65	
Year,	(1)	1890-1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	

14,203 206,004 220,207 44,396 : Total : : : Amount raised in the Rate since the beginning of the Conversion Scheme ... : Nett Expenditure to 31st March, 1929, out of borrowed money : : Unexpended borrowing power at 31st March, 1929

N.B.—The figures in Column 7, 1923 onward, include Privies abolished where no water-closet substituted, as follows:—1923, 66; 1924, 73; 1925, 217; 1926, 286; 1927, 256; 1928, 47. The figures given in the last four columns of the table have been furnished by the City Treasurer. They refer to the financial year ended 31st March—three months later than the year to which the other figures refer.

FACTORIES AND WORKSHOPS.

85 Workshops were added to the Register during 1928 and 48 were struck off.

The numbers on the Register at 31st December are set out below together with the number for the preceding year.

							1927		1928
Bakehouses and confe	ctioner	s, inclu	ding f	actory	bakeho	ouses	434		465
Tailors, dressmakers a	nd mil	liners					247		238
Metal workers							346		346
Wood workers							152		162
Hand Laundries							16		18
Restaurant Kitchens							61		59
Miscellaneous shops							224		229
		æ		, ,					
		Tot	tal wo	rkshops	s on reg	gister	1,480	• •	1,517

During the year work was carried out at 22 factories and 8 workshops as follows:—Trough closets abolished 26; Pail closets abolished 8; Privies abolished 3; additional water closets provided 75 and drains reconstructed 23.

The usual table with regard to inspections and defects found is given below:—

TABLE XXX.—Factories, Workshops and Workplaces.

		Numb	er of	
Premises	Inspections	Written	Notices	Occupiers Prosecuted
Factories (including Factory Laundries) Workshops (including Workshop Laundries) Workplaces	1356 1816 231	1	34 24 60	 3
Total	3403	3	18	3
	Nu	umber of Def	ects	Number of offences in
Particulars	Found	Remedied	Referred t H.M. Inspector	cutions were
Want of cleanliness	2 1 66 16 45 11 3 3 3	100 2 1 62 10 40 9		
Total	219	279	•••	3

OFFENSIVE TRADES.

REPORT OF THE HEAD WORKSHOPS INSPECTOR ON FISH AND CHIP SHOPS IN SHEFFIELD.

The following work was carried out in connection with the fish frying trade prior to the work being transferred to the superintendent inspectors:—

Visits made						 		349
Defects found						 	 	50
Dirty premises a	nd uter	nsils				 	 	27
Defective ventil	ation of	shops				 	 	2
Defective drains	ge of y	ards an	d shed	s		 	 	3
Impervious cove	ering of	floors a	and co	inters	• •	 	 	4
Improved and n	ew cool	king rai	nges			 	 	10
Unsatisfactory s	torage	of refus	e			 	 	3
Structural defec	ts					 	 	1

ICE CREAM TRADE.

402 visits were made to premises where ice cream was being made and sold. Copies of the regulations were left with the occupiers, and 55 letters were sent calling attention to certain defects.

PREVENTION AND TREATMENT OF TUBERCULOSIS.

(REPORT BY JOHN RENNIE, M.D., D.P.H., Tuberculosis Medical Officer.)

The number of primary notifications of Tuberculosis of the Lung received during 1928 was 1844 and Other Forms of Tuberculosis 201, giving an incidence rate per 1,000 of the population of 3.58 for Tuberculosis of the Lung, and 0.39 for Other Forms of Tuberculosis.

Table XXXI shows the number of new cases notified, deaths, and non-notified deaths at the various age periods.

				1	ADLL	AAA	L•					
					TU	BERC	ULOSIS					
	Noti	fication	s (New C	ases)		De	aths		No	on-notif	ied Deat	hs
Age-periods	Pulme	onary	Non-Pu	lmonary	Pulm	onary	Non-Pul	lmonary	Pulme	onary	Non-Pu	lmonary
	М.	F.	M.	M. F. M. F.		М.	F.	м.	F.	М.	F.	
$ \begin{array}{r} -1 \\ -5 \\ -10 \\ -15 \\ -20 \\ -25 \\ -35 \\ -45 \\ -65 \end{array} $	27 295 128 109* 86 122 102 110 60	$\begin{array}{c} \dots \\ 21 \\ 230 \\ 95 \\ 85 \\ 112 \\ 125 \\ 60 \\ 38 \\ 21 \\ \end{array}$	6 29 20 16 8 4 7 5 1	2 24 26 17 8 8 8 4 1	 4 1 3 17 20 42 51 67 35	 1 1 2 22 23 35 23 12 8	5 11 8 9 5 3 8 1 2 3	3 12 7 4 4 3 3 5	2 3 2 3 2 4	1 1 2	1 8 3 4 4 1 1 1 	 7 1 2 2 1 2 1
+65	18	•••	2	1	15	2	•••	1	4		•••	1
TOTALS	1057*	787	102	99	255	129	55	43	20	4	26	17

TABLE XXXI

The policy of delaying notification until the finding of tubercle bacilli in the sputum is quite wrong, as we know that the percentage of cases which show permanent arrest when the disease has reached this stage is exceedingly small.

In 382 of the 1,844 cases of Tuberculosis of the Lung, tubercle bacilli were found in the sputum, and the advanced nature of the disease when it has reached the infectious stage is well shown by the fact that 90 of these 382 cases died before the end of the year. These infectious cases, therefore, cannot be considered early Tuberculosis from any point of view.

The number of notifications received is not a criterion of our position as regards Tuberculosis. The principal point is the proportion of cases notified in the early and non-infectious stage of the disease, and if a diagnosis is made at this stage, and treatment given, in a very large proportion of the cases the disease will become permanantly arrested. In 20.7 per cent. of the 1928 notifications tubercle bacilli were found in the sputum. A large proportion of the remaining 79.3 per cent. of the cases were notified in the early and curable stage of the disease.

Our work is, therefore, directed towards a decrease in the number of infectious cases amongst the primary notifications, and establishing a diagnosis of Tuberculosis in the earliest stage of the disease.

The total number of notified cases on the Register on December 31st, 1928, was 5,067. Of these 1134 (including nine children under 15 years of age) were infectious cases, i.e., cases in which tubercle bacilli have been found in the sputum at some period of the illness. No case which at any time has been found to be infectious has so far been cancelled.

^{*} Including one military case.

93·11 per cent. of the cases of Tuberculosis of the Lung notified during the year were examined by the Dispensary Staff. This figure shows that the patients are anxious to receive the treatment provided by the municipality. Of the remaining 127 cases, 36 were receiving treatment in Institutions other than Corporation Institutions at the time of notification, and of the other 91 cases 38 did not desire treatment, 51 died prior to or within 14 days of notification and two left the City.

The primary investigation of all notified cases is carried out by the Male Inspectors.

The Women Inspectors re-visit the homes of the notified cases of Tuberculosis of the Lung, and make reports to the Tuberculosis Medical Officer, thus keeping him in touch with the home conditions of patients whether they are attending the Dispensary or not.

The total number of such visits paid during the year was 14,769. The Tuberculosis Medical Officer receives periodical reports on the visits made by the Women Inspectors, and reviews the whole of the cases on their visiting lists.

The number of deaths from Tuberculosis of the Lung of Sheffield residents occurring in the City during the year was 368, which is equal to 19·96 per cent. of the notifications received. It will be noticed that this figure bears a close relation to the percentage of notifications in which tubercle bacilli were found in the sputum, namely, 20·72. To this number must be added 16 deaths of Sheffield residents occurring outside the City.

The Death-rate for Tuberculosis of the Lung is 0.745 per 1,000 of the population, and for Other Forms of Tuberculosis is 0.190, giving a total Death-rate for the City for All Forms of Tuberculosis of 0.935.

The Death-rate steadily declined each year from 1922 to 1927. There were 16 more deaths recorded from Tuberculosis of the Lung during 1928 than in 1927. The Respiratory Death-rate for 1928 is 0.745 per 1,000, and is still lower than the Death-rate for England and Wales.

Considering the various adverse factors of a great industrial city like Sheffield, this figure must be considered very satisfactory.

TABLE XXXII.—Deaths from Tuberculosis of the Lung occurring during 1928, divided into sex and age groups, showing whether sputum examined and result.

AGE PERIODS					Sputum e e Bacilli ınd		e Bacilli	Sputu exan	m not nined	To	rals	
					Males	Females	Males	Females	Males Females		Males	Females
Une	der 1 y	vear	•••	•••	•••	•••	•••		•••	•••		•••
1 a	and ur	nder 5	years	• • •	•••		2	•••	2	1	4	1
5	,,	15	,,	•••	2	1	2	2	•••	•••	4	3
15	,,	25	,,	• • •	32	37	1	4	4	3	37	44
25	,,	45	,,	• • •	75	47	4	4	9	6	88	57
45	,,	65	"	•••	84	11	4	3	6	5	94	19
65 years and upwards		3	8	1	1	* * *	6	1	15	2		
	Totals			201	97	14	13	27	16	242	126	

Table XXXII shows that the diagnosis was confirmed by tubercle bacilli being demonstrated in the sputum in $80 \cdot 98$ per cent. of the cases.

It is very desirable for statistical purposes that the sputum of every case, even though advanced, should be examined.

TABLE XXXIII shows the length of time between notification and death of the 368 deaths of Sheffield residents occurring in the City.

TABLE XXXIII.—Deaths from Tuberculosis of the Lung among Sheffield residents occurring in the City during 1928, divided into age periods, showing length of time between notification and death.

	Total Deaths.	:	20	7	81	145	113	17	368	100
	6 years and over	•	:	-	9	23	11	:	41	11.14
	4 years & under 6 years	:	:	:	જા	16	6	:	27	7.34
	3 years & under 4 years	:	:	•	್ತ	7	∞	_	21	5.71
	2 years & under 3 years	:	:	:	11	12	10	1	34	9.24
nd Death.	l year & under 2 years	:	:	•	12	22	16	-	51	13.86
Period between Notification and Death.	Total under l year	:	್ಲ	9	45	65	59	14	194	52.72
tween Noti	6 months & under 1 year	:	:	•	6	22	∞	П	40	10.87
Period be	4 months & under 6 months	:	:	:	9	က	4	•	13	3.53
	3 months & under 4 months	:	•	•	70	4	67	-	12	3.26
	2 months & under 3 months	:	•	1	က	9	7	61	19	5.16
	1 month & under 2 months	:	:	જા	10	67	9	4	24	6.52
	Under 1 month	:	က	23	∞	21	26	61	62	16.85
Died	prior to notifi- cation.	:	જા	7	4	7	9	4	24	6.52
-			:	:	:	:	:	:	:	•
	Age Periods.	Under 1 year	l and under 5 years	,, 15 ,,	,, 25 ,,	., 45 ,,	., 65 ,,	65 years and upwards	Totals	Percentages
		Under	l and	ũ	15	25	45	65 yes		

It is seen that $23 \cdot 37$ per cent. died before or within one month of notification, and $52 \cdot 72$ per cent. of the total deaths occurred within one year. The percentage dying prior to, or within one month of notification, is still large. It must be recognised, as regards tuberculosis, that in a certain proportion of the cases the disease runs a rapid course.

Of the 41 cases, or 11·14 per cent., who had been notified for six years or over, seven lived six years, seven lived seven years, four lived eight years, three lived nine years, four lived ten years, three lived thirteen years, two lived fifteen years, two lived sixteen years, one lived twenty years, and one lived twenty-three years. In 21 of the 41 cases who lived six years and over after notification, tubercle bacilli had been found in the sputum at least five years previously, viz., in one case, five years previously, in five cases six years previously; in three cases seven years previously; in two cases eight years previously; in two cases nine years previously; in two cases ten years previously; in two cases eleven years previously; in one case, twelve years previously; in one case thirteen years previously; in one case sixteen years previously; and in one case twenty years previously.

The Dispensary, situate in Queen's Road, is open on week-days from 9.0 a.m. to 5.0 p.m., except on Saturdays, when it is open from 9.0 a.m. to 12.30 p.m., and patients are seen on Mondays Wednesdays and Thursdays in the morning and afternoon, on Tuesdays and Fridays in the afternoon, and on Saturday mornings. There are also two evening sessions (Tuesday and Friday), from 6.0 p.m. to 8.0 p.m., for the convenience of patients who are working. There is no branch Dispensary.

During the year I was assisted by Dr. N. Keating, Dr. J. R. Liddell, Dr. J. Hay Campbell, Dr. F. Barnes, Dr. A. Meiklejohn, (resigned), and Dr. T. S. Townsend, and Dr. J. A. R. Paterson.

The Staff consisted of five Male Inspectors, two Male Clerks, two Female Clerks, two Junior (Male) Clerks, and five Female Clerk-attendants. One Inspector acts as Radiographer, and a second does laboratory work.

The revisiting of the notified cases is carried out by the Women Inspectors. It is estimated that the whole time of five Inspectors is taken up by this work.

Public Health (Prevention of Tuberculosis) Regulations, 1925.

No action was taken under the above Regulations with regard to tuberculous employees in the Milk Trade.

Public Health Act, 1925, Section 62.

No action was taken under this Section with regard to compulsory removal to hospital.

ATTENDANCES AT THE DISPENSARY.

Patients who attend the Dispensary may be divided into (a) Old Cases and (b) Cases seen for the first time.

OLD CASES—NOTIFIED.

The total number of notified cases who attended the Dispensary for treatment and supervision during the year was 5,506, and on December 31st, 1928, there remained on treatment and supervision 4,223. In addition 1,749 cases remained on General Supervision. The total number of attendances of notified cases made during the year was 39,212.

Every effort is made by the Dispensary Staff to keep in touch with the notified cases.

NEW CASES.

Table XXXIV. gives particulars of the cases at the time of their visit to the Dispensary and the result of the primary examination arranged under three headings, viz., (a) Cases notified prior to their first attendance at the Dispensary; (b) "Suspects"; (c) "Contacts."

TABLE XXXIV.—Giving particulars of new cases examined during year and result of primary examination.

SEX AND		(a) Notified Cases	(b)-	—"Suspect	ts.''	(c)-	(c)—" Contacts."			
AGE PERIODS		Number examined	Number examined	Put on Observation	Found not Tuber- culous	Number examined	Put on Obser- vation	Found not Tuber- culous		
ADULTS (15 years and upward	-/eF									
Males Females		275 207	822 662	792 637	$\begin{array}{c c} 30 \\ 25 \end{array}$	510 681	131 182	379 499		
			0.02		20	001	102	499		
Total Adults	• • •	482	1,484	1,429	55	1,191	313	878		
School Children (5 years under 15)—		07	* 2.	402	0.2					
Males	• • •	67	524	492	32	454	210	244		
Females	• • •	58	410	389	21	509	205	304		
Total School Childre	EN	125	934	881	53	963	415	548		
Infants (under 5 years)—										
Males		3	52	40	12	103	34	69		
Females	• • •		49	45	4	114	34	80		
Total Infants	•••	8	101	85	16	217	68	149		
Total Adults, School Children and Infants	s	615	2,519	2,395	124	2,371	796	1,575		

Particulars of the source of the 2,519 "Suspects" were as follows:—

Private Doctor	School Medical Department	Pensions Board	Voluntary Hospitals	Maternity and Child Welfare Centre	Own request	Total
1,941	384	5	177	7	5	2,519

The large figure of 2,519 sent to the Dispensary for diagnosis shows that the medical profession in Sheffield continue to make full use of the Dispensary. In 87·04 per cent. of the notifications for the year the patients were sent to the Dispensary prior to notification. It is in this way that we find our carly and curable cases. It is gratifying to find that the medical profession in Sheffield recognise the importance of early diagnosis, and to know that the co-operation between all members of the medical profession and the Dispensary is so good.

The ultimate diagnosis of these suspicious cases often entails observation for long periods, and, in many cases, residence in the observation bcds in the Sanatoria.

Cases which are diagnosed in the General Hospitals are always treated as urgent cases, and are admitted to Sanatorium without delay.

The number of attendances at the Dispensary made by "Suspects" during 1928 was 11,835.

During the year 120 patients were examined at home in consultation with private medical practitioners.

"Contacts."—2,371 "Contacts" from the homes of notified cases were examined, and of these it was found desirable to retain $33 \cdot 57$ per cent. for further observation and treatment.

PATIENTS OF SCHOOL AGE.

As in former years, the work of the Tuberculosis Dispensary amongst tuberculous children has been carried on in close co-operation with the School Medical Department. The extra

sanatorium beds provided have added much to the value of the preventive work amongst school children.

The School Medical Officers refer all suspicious cases to the Dispensary for diagnosis, and the responsibility for diagnosis and notification rests with the Tuberculosis Officer.

The names of all children of school age who are known to have been exposed to infection in their homes are supplied to the School Medical Officer, so that he may observe them closely during their school life. If any indication of Tuberculosis is observed amongst these children they are immediately referred to the Tuberculosis Dispensary. In this way the School Medical Officer is kept in touch with a large proportion of the children who are known to have been exposed to infection.

The greater part of the work at the Dispensary on Wednesday and on Saturday morning is devoted to children of school age, and one of the Assistant School Medical Officers attends each Session on Wednesday.

During the year 1928, 16,511 attendances (exclusive of new cases) were made by school children, 11,764 by notified cases, and 4,747 by observation cases.

Twenty-eight places at the Whiteley Wood Open-Air School, and twenty-six places at the Springvale House Open-Air School, were reserved for children selected by the Tuberculosis Officer.

Tubercle Bacilli were found in the sputum of seven children, whose names were, therefore, taken off the school registers.

It will be observed from these figures that a large amount of work is being done among the school children of Sheffield, and I feel confident that this is the most encouraging part of our work, and is likely to be favourably reflected in our future tuberculosis results.

Total Attendances.—The number of attendances at the Dispensary during 1928 was 59,277, which includes 2,725 attendances for ultra violet light treatment.

Examination of Sputa.

During the year 3,671 specimens of sputa were examined, 666 at Crimicar Lane Sanatorium, and 3,005 at the Dispensary. Of these 3,671 specimens 790 were found to contain typical tuberle bacilli.

X-RAY DEPARTMENT.

2,360 Skiagrams were taken during the year, as compared with 2,044 during 1927 and 1,709 during 1926. A first-class skiagram is not only valuable as a permanent record of the condition of a chest, but is so useful in diagnosis that it may now be considered indispensable. It is now the routine practice to take an X-ray film of the chest of all adult cases who have either a negative sputum or no sputum.

Institutional Treatment.

It is pleasing to record that the number of beds allocated for the treatment of all Forms of Tuberculosis in the City of Sheffield appears to have reached a maximum figure, and, fortunately, long waiting lists for institutional treatment are a thing of the past.

The total number of beds available for the treatment of Respiratory Tuberculosis is as follows :—

Crimicar Lan	e Sanatorium				 	108 males.
Moor End Sa	natorium				 	43 females.
Winter Stree	t Hospital				 • •	48 males.
"	,,				 	58 females.
Nether Edge	Sanatorium				 	66 men.
,,	,,	• •	• •		 • •	47 women.
,,	,,				 • •	74 boys.
,,	,, ••			• •	 	60 girls.

The following Table shows the number of admissions, discharges, and deaths at the various Institutions:—

TABLE XXXV.

	Admissions	Discharges	Deaths	Number remaining at Dec. 31st, 1928
Commonside Sanatorium— Adult Females Girls	148 14	144	10	37 4
Crimicar Lane Sanatorium— Adult Males Boys of School Age	501 50	470 28	48 1	81 23
Winter Street Hospital— Adult Males ,, Females Boys Girls	190 254 120	182 239 98 98	21 20 3 2	27 35 19
Nether Edge Sanatorium— Adult Males ,, Females Boys	316 325 489	275 311 494	40 16	64 45 68
Girls	2,923	2,752	161	480

The following table shows the classification of cases received in the various Sanatoria during the year.

This shows that a large proportion of the cases were admitted in the early stage of the disease, viz., $47 \cdot 1$ per cent. of the men, $53 \cdot 0$ per cent. of the women, and $71 \cdot 2$ per cent. of the children.

The early diagnosis appears to me to be the most important factor in explaining the low Death-rate for the City of Sheffield.

Reports, etc., to Ministry of Pensions, and to the Regional Medical Officer of the Ministry of Health.

During the year, 301 certificates and reports with regard to ex-service men were furnished to the Ministry of Pensions; and 260 reports on the condition of patients were made at the request of the Regional Medical Officer of the Ministry of Health.

AFTER CARE.

The organisation with regard to after-care is carried on through the Dispensary. Unsatisfactory cases are reported to the Hospitals Sub-Committee, who consider the cases and instruct the Tuberculosis Medical Officer to deal with them. Shelters are lent to infectious cases, but it is found in Sheffield that the home surroundings are such that in very few cases is it possible to find adequate accommodation for a shelter. This form of isolation in Sheffield is of very little practical value. Beds and mattresses are lent to infectious cases who are unable to provide for themselves a separate bed, and during the year 74 beds and 79 mattresses were lent.

In addition to lending beds and mattresses, the Health Committee decided to lend complete sets of bed-clothing to infectious cases who were unable, owing to their financial circumstances, to procure them.

During the year 28 sets of bed-clothing were lent.

Housing of Infectious Cases.

During the year arrangements were made by the Health Committee with the Estates Committee for twenty-six houses to be allocated to Infectious Cases of Tuberculosis whose families were living under overcrowded and unsatisfactory conditions.

In connection with this Scheme, the Chairman of the Hospitals Sub-Committee (Mr. Councillor J. A. Longden) and the Tuberculosis Medical Officer, visited a large number of homes which were reported as unsatisfactory before submitting the cases to the Special Section of the Hospitals Sub-Committee appointed to deal with the re-housing of Infectious Cases.

Altogether twenty-three families were re-housed under the Scheme.

The "Contacts" of these families are all examined at the Dispensary and arrangements are made for their re-examination at least once a year.

The Chairman of the Hospitals Sub-Committee has taken a special interest in the work and along with the Tuberculosis Medical Officer has re-visited a large number of the families after re-housing.

The most striking feature of the work has been the improvement noted in the health of the children.

TABLE XXXVI.—Institutional Treatment of Tuberculosis, Year Ended December 31st, 1928.

GRAND TOTALS.		2,923		657	1,706	419	141		22.5	58.4	14.3	4.8
	Children	1,189		338	847	က	1		28.4	71.2	0.3	0.1
Totals.	Women	727		145	385	154	43		19.9	53.0	21.2	5.9
	Men	1007		174	474	595	97		17.3	47.1	0.97	$\frac{9 \cdot 6}{}$
	Total	1542		370	985	131	56		24.0	63.9	8.5	3.6
NETHER EDGE SANATORIUM.	Children	901		241	099	:			26.7	73.3	:	:
NETHE SANAT	Women	325		99	188	56	15		20.3	57.8	17.2	4.6
	Men	316		63	137	75	41		19.9	43.4	23.7	13.0
D W.	Total	162		27	98	41	∞		16.7	53.1	25.3	4.9
Moor End Sanatorium.	Children	14		õ	6	•	:		35.7	64.3	:	:
	Women	148		22	77	41	∞		14.9	52.0	27.7	5.4
ANE M.	Total	551		93	287	136	35		16.9	52.1	24.7	6.3
Crimicar Lane Sanatorium.	Children	20		∞	40	-	-		16.0	0.08	2.0	2.0
CR	Men	501		85	247	135	34		17.0	49.3	26.9	8.9
	Total	899		167	348	1111	42		25.0	52.1	16.6	6.3
WINTER STREET HOSPITAL.	Children	224		84	138	ଚୀ	:		37.5	61.6	6.0	:
Winter	Women	254		57	120	57	20		22.4	47.2	22.4	7.9
	Men	190		26	06	52	22		13.7	47.4	27.4	11.6
		Classification of Cases received during the year	PULMONARY.	1. Observation	2. Early	Intermediate	Advanced	Percentages.	Observation	2. Early	Intermediate	4. Advanced
		Class rec		1. 0	2. E	3. In	4. A		1. 0	2. E	3. II	4. A

Work of the Male Tuberculosis Inspectors.

WORK OF THE MALE TODEROCLOSIS INSTECTORS.		
1. Tuberculosis of the Lung—New Cases.		
Cases investigated—particulars obtained	1,809	
" no particulars available	6	
(Principally cases in Institutions who are usually resident in Common Lodging).
Special cases—not visited	3	
Cases investigated (not notified prior to death)	27	
Cases not visited (transferable deaths from other districts)	6	1 051
		1,851
2. Other Forms of Tuberculosis—New Cases.		
Cases investigated—particulars obtained	160	
" not notified prior to death	44	
Cases not visited (transferable deaths from other districts)	1	
		205
Total New Cases—All Forms of Tuberculosis		2,056
Periodic Re-visits to Positive Cases		359
Additional visits—		
(a) For further investigation	1,747	
(b) Re-admission to Hospital		
(c) For disinfection after removals	298	
(d) For disinfection after admission to Hospital	1,629	
(e) For disinfection after death	177	
(e) For distinction death		3,851
Total	-	4 910
10tal	_	4,210
Number of rooms sprayed		9,575
This figure includes 1,223 houses where every room was disinfected		0,010
after death or removal of the patient.		
Number of Reports to District Inspectors re defects in houses		177
Number of Reports to Workshop Inspector re cases employed in Workshops		83
Cases left City and lost through removal—		
(a) Number of Cases left the City	71	
(b) Number of Cases lost sight of—new address not known		
		w 7
Total		71
VISITATION OF CASES BY THE WOMEN INSPECTORS.		
Number of visits to notified Cases	12,512	
Number of visits to notified Cases (ex-service men)	77	
Number of visits on discharge from Sanatorium re home conditions	2,180	
Total visits to cases	14,769	
LOURI VISIUS TO CROSES	====	

REPORT ON NON-PULMONARY FORMS OF TUBERCULOSIS FOR THE YEAR 1928, by O. LEE PATTISON, M.B., B.S., M.R.C.S., L.R.O.P., Surgical Tuberculosis Officer and Medical Superintendent King Edward VII Hospital.

The number of notified cases and the death rate of the various types of non-pulmonary forms of tuberculosis is shown in Table XXXVII.

TABLE XXXVII.

							Number of Cases Notified	Number of Deaths	Death Rate per Million Population
Nervous	(chiefly	Men	ningitis)	•••	• • •	•••	 34	51	99
Intestine	es and I	Perito	neum	• • •	• • •	• • •	 26	14	27
Vertebra	al (Spine	e)	• • •			• • •	 13	5	10
Bones, o	ther th	an Ve	ertebræ			• • •	 9	3	6
Joints	• • •		• • •		• • •		 42	4	8
Skin	• • •	• • •	• • •				 4		
Genito-u	ırinary		• • •			•••	 4	6	11
Other	•••	•••	•••	• • •	•••	•••	 26	15	29
	Total	•••	•••	•••	•••	•••	 158	98	190

Arrangements made by the Municipality for dealing with the non-pulmonary forms of tuberculosis may be considered under two headings.

- 1.—INSTITUTIONAL TREATMENT
- 2.—OUT-PATIENT SUPERVISION.
 - (1) INSTITUTIONAL TREATMENT.

THE KING EDWARD VII. HOSPITAL.

The majority of cases of non-pulmonary forms of tuberculosis occur in children, these are treated in this Institution. Owing to the early stage of the disease at which it is now possible to begin treatment, the period of stay in Hospital has been reduced during the last few years.

As a result beds have been available for patients from areas outside Sheffield. With the sanction of the Ministry of Health the local authorities concerned pay the full cost of maintenance, including service of debt and educational charges for the beds occupied by their patients. This is on the understanding that only beds shall be used by them which are not required for Sheffield children.

During 1928 the following fresh cases were treated in the King Edward VII. Hospital.

TABLE XXXVIII.

Part affect	ed		N	Iale	Female	Total
Vertebrae (Spine)				8	13	21
Hip Joint ` ´				15	24	39
Knee Joint				10	6	16
Elbow Joint				2	0	2
Ankle Joint				2	0	2
Lymphatic Glands				8	10	18
Lupus (Skin)				3	0	3
Peritoneum			.1	1	6	7
Other parts		• •		10	14	24
*Observation Cases		• • •		8	7	15
	TOTAI	S.		67	80	147

^{*}Observation cases are those in which the diagnosis was uncertain and which proved later to be non-tuberculous.

The average duration of stay in Hospital was 275·1 days.

Institutional Treatment for Adults.

Adult patients with bone or joint tuberculosis are treated in Nether Edge Hospital, under the supervision of the Surgical Tuberculosis Officer. The scope of this work has increased during the year, a considerable number of plaster-of-Paris and other surgical appliances have been applied and the equipment necessary for treating these cases has become much more adequate.

Minor operations are performed when necessary.

The results of the treatment provided have been most encouraging in the majority of instances and show that the work is well worth doing.

II.—OUT-PATIENT SUPERVISION.

Examination and supervision of out-patients continues to be held at the Tuberculosis Dispensary. Here new patients are seen, and after care of patients discharged from the Tuberculosis Hospitals is undertaken.

New patients were sent from the following sources:—

Private Medical practitioners				 41
Tuberculosis Medical Officer				 93
School Medical Department	• •			 44
Royal Hospital				 8
Royal Infirmary				 6
Children's Hospital			• •	 18
Tuberculosis Officer W. R. Cour	nty Counc	il		 38
Other sources				 30
	TOTAL			 278

There were 179 new Sheffield patients, these were :—23 Men; 22 Women; 70 Boys; 64 Girls; (Adults 45, Children 134).

The disease occurred in the following situations:—

		0				
				Males.		Female.
Spine				 9		13
Hip Joint				 9		14
Knee Joint				 8	• •	11
Ankle Joint		• •	• •	 3		4
Elbow Joint		• •		 2		0
Shoulder Joint		• •	• •	 2		1
Lymphatic Glan	ds	• •	• •	 40		33
Lupus (Skin)		• •		 4	• •	3
Sacro-iliac Joint				 1		1
Bones				 5		2
Multiple Lesions	3			 1		0
Peritoneum				 8		4
Epididymis				 1		0
1 0						
	TOTA	ALS		 93		86

In addition there were 61 new cases sent for examination who were found to be non-tuberculous.

A number of X-ray photographs were taken at the request of the West Riding County Council, for which the sum of $\pm 39/7/6$ has been received.

The total number of attendances at the department in 1928 was 2,923.

During the year an evening session one night a week was started for the benefit of patients who were unable to attend the ordinary afternoon sessions on account of hours of work or from other causes. A number of patients have availed themselves of the facilities so provided.

ULTRA-VIOLET LIGHT TREATMENT.

Ultra-Violet Light Treatment has been continued during the year, both at the King Edward VII Hospital and at the Tuberculosis Dispensary.

The patients are carefully selected by the Surgical Tuberculosis Officer and the treatment is undertaken under his supervision.

Six Sessions per week are held at the Dispensary, at which there have been 2,317 attendances. Owing to the use of "cored-carbons" the time of exposure necessary and therefore the cost per patient has been considerably reduced.

The results obtained by this means of treatment have confirmed the conclusions reached by previous experience extending over the past 14 years.

In some types and with certain degrees of activity of the disease ultra-violet light treatment is indicated and proves definitely beneficial, but in other instances it should be avoided as in them it appears to be useless or even harmful.

At the King Edward VII Hospital further investigation has been undertaken in the use of foods irradiated by Ultra-Violet Light, this has been found beneficial in some cases, and may prove to be valuable as a sourse of vitamin D when other substances containing it (such as cod liver oil) are not tolerated by the patient.

LUPUS CLINIC.

During the year a clinic for the treatment of lupus has been started. One afternoon and one evening session are held weekly.

In addition to general radiations with ultra-violet light, local treatment with a Kromayer Lamp is given. Since September 408 atttendances have been made.

Photographic records are being kept.

Up to the present time the results obtained have been very gratifying.

MATERNITY AND CHILD WELFARE.

Women Inspectors' Work-

TABLE XXXIX.

		1926.		1927.	1928.
Visits with regard to Houses-let-in-lodgings		 774		549	 415
Visits with regard to Births		 45,161		31,154	 30,880
Visits to Children 1 to 5 years		 _		14,760	 20,270
Visits with regard to School complaints		 23		32	 18
Visits with regard to Tuberculosis—					
Dispensary Cases		 13,214		14,870	 14,692
Surgical Clinic Cases		 1,081		1,594	 1,324
Discharged Soldiers		 97		73	 77
Visits to Midwives		 194		253	 138
Visits with regard to Puerperal Fever		 91		288	 275
Visits with regard to Ophthalmia Neonatoru	ım	 346		285	 338
Vists to Expectant Mothers		 162	٠.	261	 383
Visits with regard to Measles		 46		13	 54
Visits with regard to Pneumonia		 8		17	 9
Visits with regard to Small Pox contacts		 63		2,749	 227
Visits for other reasons		 2,216		1,895	 1,996
Cases reported to N.S.P.C.C		 13		10	 14
Cases reported to S.Q.V.J.N.A		 1		1	 2
Nuisances Notices served		 42		33	 30

MIDWIVES ACTS 1902 AND 1918.

At the end of the year 1928 there were 77 midwives in practice on their own account in Sheffield. Of this number 68 were hospital trained midwives and 9 were untrained midwives who were in bona-fide practice as such at the time of the passing of the 1902 Act.

There were 138 visits of inspection paid to midwives at their own homes during the year, and 92 midwives were specially interviewed for various reasons connected with their work at the office of the Chief Inspector of Midwives.

Notifications have been received from midwives under certain circumstances, as follows—70 notifications of still birth (37 full time, and 33 premature); 764 notifications that the midwife had been obliged to send for medical help, the reasons for sending for medical help, as far as could be ascertained, being as follows:—

- (1) Abnormal Presentations:—Breech, 15; Arm, foot or shoulder, 11; Transverse, 7; Funis, 6; Face, 9; Right Occipito Posterior, 48. Total, 96.
- (2) Causes affecting the child:—Convulsions, 8; Debility, 23; Asphyxia, 11; Prematurity, 42; Spina Bifida, 3; Ophthalmia, 65; Jaundice, 9; Cleft palate, Hare lip, 2; Miscellaneous, 67. Total, 230.
- (3) Causes affecting the mother:—Placenta Prævia, 6; Ante-partum Hæmorrhage, 20; Eclampsia, 5; Post-partum Hæmorrhage, 32: Rupture of Perineum, 171; Contracted pelvis, 27; Rigid Os or Perineum, 8; Uterine Inertia, 70; Adherent Membrane or Placenta, 15; Rise of Temperature, 31; Miscellaneous, 53. Total, 438.

And 16 notifications that the mother intended to substitute artificial feeding for breast feeding.

		1927			19	28	
	Puerpera	l Fever	Puerp. Pyrexia	Puerpera		1	Pyrexia
	Cases	Fatal	Cases	Cases	Fatal	Cases	Fatal
Cases attended by— Doctors	32 24 3 11 3 1 16 2 1 2	12 3 5 1 9 	26 8 2 62 — 1 — 2 1 — 1	23 15 6 14 - 3 - 2 2 19 - 2	4 3 6 1 9 	23 15 2 39 1 1 - - 2 5 - 1 9	3 6 -4 1 1
	95	30	103	86	26	98	15
Cases originally notified as Do. do. Puerperal Pyrexia subsequently Puerperal Fever subsequently (The particulars in	Puerper notified a	al Pyrex as Puer s Pyrexi	ia peral Fev a	• •	1927. 77 121 198 18 — ary alterat	1	928. 67 17 84 = 20
Cases nursed at home Cases nursed entirely in Hospit Do. do. Nursin Cases removed after onset of of To Jessop Hospital ,, Firth Auxiliary ,, Firvale Hospital ,, Royal Hospital ,, Lodge Moor Ho ,, Royal Infirmary ,, Nursing Homes	tal ng Home lisease :— Hospital spital				1927. 26 74 — 21 11 64 1 2 — 1 — 200*		928. 19 54 1 3 73 32 — 1 1 84

^{*} The above figure includes 2 cases which were notified in 1926 and for which subsequent notifications were received in 1927.

OPHTHALMIA NEONATORUM.

	UPI	LIALI	IIA NE	ONA	TORON	1.		
					1926.		1927.	1000
								1928.
Cases attended by doctors	• • •	• • •	•••	••	26	•••	34	26
Do. midwives	• • •	•••			94	• • •	68	64
Do. doctors an	d mid	wives			4	•••	1	2
T TT 1/2 1				••	15		9	18
	• • •	•••	•••	••		•••		
Firvale Hospital cases	•••	• • •	•••	••	2	•••	4	3
Nether Edge Hospital cases	•••	• • •		••		• • •	1	4
Not stated	•••	•••			1	•••		
Unattended	•••	•••					9	
				• •	77	•••	0	11
Cases carried forward to the	ionowi	ng year	•••	••	7	•••	8	11
								
					149	• • •	120	130
The following cases were brou-	10ht fo	rward f	rom the					
previous year and are	merud	ea m th	e above				_	
summary	• • •	•••	•••	••	13	•••	7	8
Totals for year	a r				136		113	122
Totals for year	20.1	•••	•••	•••	190	•••	110	124
Daamanal Chama						1000	1007	1000
Doctors' Cases—						1926.	1927.	1928.
Eyes recovered	• • •	• • •	• • •	• • •	•••	23	30	24
Eyes damaged		•••	•••		•••	1	_	1
7011 7 1	•••			•••		•	1	•
	•••			•••	0.1.1	, -	1	
Died from other c	auses	during	attack	of	Ophtha	almia		
Neonatorum	•••	• • •	• • •			1	2	
Removed	•••	•••		•••	•••	1	1	1
nemoved	•••	•••	•••	•••	•••	_ 26	_ 34	_ 26
						<u> </u>	- 34	20
Midwives' Cases—		- ^						
Eyes recovered		•••	•••	• • •	•••	93	63	61
Eyes damaged		•••	•••		•••		1	_
	•••			···		almaia	*	
Died from other c	auses	during	attack	of	Ophtha	_		_
Neonatorum	• • •	•••	•••	• • •	• • •	1	3	1
Removed		•••	•••		•••		1	2
						94	- 68	64
O. and . mmm. mm Dooms		- M				— JI	— 00	— 0 1
CASES ATTENDED BY DOCTO	RS AN	D MIDW	/IVES—					_
Eyes recovered	•••	•••	• • •		• • •	4	1	2
						4	— 1	 2
JESSOP HOSPITAL CASES—								
						1.4	9	177
Eyes recovered	• • •	•••	•••	•••	•••	14	2	17
Out of town cases	• • •	• • •	•••	• • •	• • •	1	_	_
Died from other cause	s duri	ng attac	k		•••	_	_	1
		0				- 18	<u> </u>	— 18
FIRVALE HOSPITAL CASES—						10	_	10
Eyes recovered	•••	• • •	• • •	•••	• • •		3	3
Died from other c	auses	during	attack	of	Ophtha	almia		
Neonatorum	•••	•••	•••	• • •	• • • •	1		
Cannot trace	• • • •		•••	•••	•••	î		
	•••	•••	0.0-0	•••	•••	1		
Removed	• • •	•••	• • •	• • •	•••		1	- .
						_ 2	— 4	— 3
NETHER EDGE HOSPITAL CA	SES-							
Eyes recovered								4
	•••	•••	•••	• • •	• • •		1	т.
Removed	• • •	•••	• • •	• • •	•••		1	
,							<u> </u>	_ 4
NOT STATED—								
Eyes recovered					• • •	1		
= 5 00 1000 1010 4 111	•••	•••	•••	•••	•••	_ 1		
O O						<u> </u>	_	
OUT OF TOWN CASES—								
Results not ascertaine	ed	•••	•••	•••	•••	_		2
	ed	•••	•••	•••	***			$\frac{2}{-}$ 2
Results not ascertaine	ed	•••	•••	•••	***			$\frac{2}{-}$ 2
Results not ascertaine UNATTENDED—			•••			— —	. – –	$\frac{2}{-}$ 2
Results not ascertaine UNATTENDED— Died from other ca			 an atta	 ick (of Oph	– thalmia		$\frac{2}{-}$ 2
Results not ascertaine UNATTENDED—			an atta	ick (of Oph	 thalmia 		2 - 2
Results not ascertaine UNATTENDED— Died from other ca			an atta	ick (of Ophi	— thalmia —		$\frac{2}{-}$ 2
Results not ascertaine UNATTENDED— Died from other ca			an atta	ick o	of Ophi	thalmia — —		2 - 2
Results not ascertaine UNATTENDED— Died from other ca			an atta	ick (of Oph		2	
Results not ascertaine UNATTENDED— Died from other ca Neonatorum	uses 		an atta	 ick (of Oph		$-\frac{2}{112}$	
Results not ascertaine UNATTENDED— Died from other ca	uses 		an atta		Ophi		2	
Results not ascertaine UNATTENDED— Died from other ca Neonatorum	uses 		an atta		Oph		$-\frac{2}{112}$	
Results not ascertaine UNATTENDED— Died from other ca Neonatorum	uses 	during 	an atta		Oph		- 2 - 112 - 8 	
Results not ascertaine UNATTENDED— Died from other ca Neonatorum	uses 	during 	 an atta 		Oph		$-\frac{2}{112}$	

MAT	TERNITY CLINIC-							1926.		1927.		1928.
	Total attendance	s during	the year	ır	•••	•••	• • •	1090	• • •	2094	•••	5126
	Total attendance	s from c	ommen	cement	•••	•••	•••	3924	•••	6018	•••	11144
	Number of sessio	ns durin	g the ye	ear	•••	• • •		101	•••	126	• • •	274
	Average attendar	nces at e	ach sess	sion	•••	•••	•••	11	•••	17	•••	19
	Total new cases of	during th	e year	• • •	•••	• • •	•••	532		730	• • •	1281
												01
Case	es sent by—											
Cast	Centre Staff:											
	Doctors							0		7.4		
	Inspectors	•••	• • •	* * *	• • •	***	• • •	6	•••	14	• • •	26
	Certified Midwive	es	•••	•••	•••	* * *	• • •	106	•••	104	•••	128
	Outside Doctors	•••	•••	• • •	•••	***	• • •	$\frac{106}{5}$	***	187	•••	203
	Outside Midwife	•••	•••	•••	• • •	***	•••	3 1	•••	20	•••	51
	Friends	•••	•••	•••	•••	• • •	• • •	186	• • •	240	• • •	770
	Jessop Hospital	•••	•••	•••	•••	***	•••	100	•••	240 1	•••	770
	Nether Edge Hos		•••	•••	•••	•••	• • •		• • •	1	• • •	1
	Tuberculosis Disp	_	•••	•••	•••	• • •	•••	3	•••		•••	
	M.O.H	•••	•••	• • •		•••	• • •		•••	1	•••	_
	Councillor	•••	•••		•••	•••	•••	_	•••	1	•••	
	Lady Guardian		•••	•••		•••	•••	1	•••		•••	
	Registrar	•••	•••	•••	•••	•••	•••	1	•••	_	•••	_
	Salvation Army		•••	• • •	• • •	• • •	•••	$\frac{1}{2}$	•••	3	•••	
	British Legion	•••	•••	•••	•••	• • •	•••	1	•••		•••	_
	Council of Social	Service	• • •	• • •	•••	•••	•••		•••	1	•••	
Atte	ended previously	•••	•••	•••	•••	•••	•••	69	•••	44	•••	81
Cam	e unadvised	•••			•••	•••	• • •	66	•••	113	•••	
Misc	ellaneous	•••	•••		•••	•••	•••		•••		• • •	22
								532	•••	730	•••	1281
			New o	eases in	1920		12	77				
			de		1920	•••	21					
			de		1922	• • •	23					
			de		1923	• • •	25					
			de		1924	•••	31					
			de		1925		40					
Вав	Y CONSULTATIONS	3.										
	entre.							1926.		1927.		1928.
	Total attendance	s during	the ven	r	•••			48,307		48,249	1	53,553
	Average weekly a	_	•			•••	•••	929		928	•	1,050
	Total attendance					end of	the	020		020		1,000
	year		***	***				550,727		598,976	6	52,529
	Number of session	ns durin	g the y	ear (ex	cluding	g Satur	day					
	mornings)	•••	•••	•••	•••	•••	•••	1,464		1,461		1,450
	Average attenda			(per c	doctor)		_	33		33		37
	Saturday a	_		tora	•••	•••	•••	954		953		933
	Number of session		•		• • •	•••	• • •	510		993 508		933 517
	Number of googs		DY HISL	ectors	• • •	• • •	• • •					
	Number of session		•					3 895		-3.630		4 020
	Total new babies	during t	he year		• • •	• • •	• • •	3,825		3,630		4,020
	Total new babies Average of new b	during to abies we	he year	•••	•••	•••	•••	74		70		79
	Total new babies	during to abies we 1 year	he year					· ·				

	19	26	1	1927	. 19	928
v	New Cases	Total Attendances	New Cases	Total Attendances	New Cases	Total Attendances
January February March April May June July September October November December	325 342 340 280 265 378 335 327 347 330 332 224	3,767 3,973 4,648 3,698 3,254 4,283 4,257 4,073 4,475 4,108 4,364 3,407	269 304 396 294 336 293 305 335 294 321 305 178	3,633 3,501 4,646 3,693 4,364 3,969 4,022 4,270 4,210 4,317 4,480 3,144	341 328 344 340 339 424 371 304 344 367 312 206	4,218 4,033 4,280 4,075 4,318 4,872 5,202 4,629 4,532 5,250 4,804 3,340
	3,620	40,507	5,050	40,249	4,020	ან,აან
Woodhouse Branch.				1926.	1927.	1928.
Total attendances du	ring the yea	r	•••	1,421	1,411	1,466
Number of sessions de			•••	52	52	52
Average attendances		•••	•••	27	27	28
Total new babies dur	-		•••	153	105	100
Handsworth Branch-	<i>e v</i>					
Total attendances du	ming the tree	39		640	710	785
			• • •	96	25	25
Number of sessions d	•		•••	or.		
Average attendances	_	•••	•••	25	28	31
Total new babies dur	•		•••	51	60	74
Cases sent to Hospitals and other	er Institution	ıs.				
Royal Hospital	•••	•••	•••	61	65	99
Royal Infirmary	•••	•••	•••	61	47	50
Children's Hospital	•••	•••	•••	174	177	238
School Clinic	•••	•••	•••	23	6	27
Edgar Allen Institute			•••	28	64	98
Tuberculosis Dispens	ary	•••	•••	3	5	3
Jessop Hospital	•••		•••	2		_
				352	364	515
		•				

TABLE XL. SHEFFIELD QUEEN VICTORIA DISTRICT NURSES.

Summary of Work done on behalf of Health Committee during 1928.

dealt with of V					
2,088 5,8	•••	•••	•••	onia	Pneumonia
					Tuberculos
171	• • •	• • •	•••	edical	
104	• • •	•••	• • •	rgical	Surgic
					
					Diarrhœa-
5	• • •	•••	• • •	nder 5 years	Under
10	•••	•••	•••	elas	Erysipelas
4	•••	•••	• • •	almia	Ophthalmi
				ing Cough—	Whooning
ee				nder 5 years	
2.1		• • •		rer 5 years	
9		• • •	• • •	lults	Adults
3	•••	•••	•••		21(4410)
				·	Measles—
125		• • •	•••	der 5 years	
P P	• • •	• • •	•••	ver 5 years	
~		•••	•••		Adults
—— 185 E					
1	•••	•••	•••	d Fever	Typhoid Fe
2	• • •	• • •	•••	Fever	Scarlet Fev
14 4	•••	•••	rgica	alitis Lethar	Encephaliti
2	•••	• • •	 rgica	Fever	Scarlet Fev

MATERNITY CLINIC.

(REPORT BY DR. AGNES S. MACINTYRE, M.B., Ch.B.)

The work of the Clinic for 1928 is marked by a great increase in the number of patients who attended—1281 new cases were seen as compared with 730 in 1927. Additional sessions made the average seen per session 19, as compared with 17 for 1927.

•			1926.		1927.	1928.
Total attendance during the year .			1,090		2,094	 5,126
Total attendance from commencement		• •	3,924		6,018	 11,144
Number of Sessions during the year .			101		126	 274
Average attendance at each session .			11		17	19
Total new cases during the year .			532		730	 1,281
The table shewing by whom patients were Centre Staff:—	re seen	is ag	ain int ere	sting:	-	

Doctors	 	• •	 		 26
Inspectors	 	• •	 		 128
Certified midwives	 		 		 203
Outside doctors	 		 		 51
Friends	 		 		 770
Attended previously	 		 		 81
Miscellaneous	 		 	• •	 22
	,				1281
					1201

A pleasing feature is that 770 new cases came to the Clinic advised by previous patients and friends.

The Inspectors have visited 1,041 cases and have completed the charts:—
855 babies were born alive.

750 by normal delivery.

9 by breech delivery.

1 footling delivery.

1 transverse.

93 by instrumental delivery.

1 by Cæsarean section.

58 patients miscarried or had a stillbirth.

92 mothers were not pregnant.

18 could not be traced.

18 post-natal cases.

1041

19 out of Sheffield cases.

1060

Details available re the 58 cases of miscarriage or stillbirth show that :—

5 were difficult instrumental deliveries; 5 mothers had albuminuria; 1 had Glycosuria; 5 accidents to mother during pregnancy, viz., burn, falls and fright; 1 fœtus was deformed; 3 were malpresentations; 1 labour complicated with uterine tumour and malpresentation, (footling); 7 were pathological pregnancies; 9 mothers had anæmia; 1 epilepsy; 1 tubercle; 1 complicated labour necessitating perforation; 14 cause unknown; 2 twin pregnancies; 2 not classified; 149 cases of previous miscarriage, stillbirth or instrumental delivery were successfully treated during 1928, *i.e.*, as normal confinements.

The Nether Edge Hospital has been in full use during the year, both for actual lying-in and ante-natal treatment.

Thanks are due to Dr. Boyd and Dr. Erwin for their successful share in the work, also the entire Centre staff, especially Mrs. Franks and Miss Martin.

NETHER EDGE MATERNITY HOSPITAL.

During the year 239 births took place in the Hospital, the following table shows the number which occurred in each month:—

January, 7; February, 6; March, 12; April, 12; May, 9; June, 16; July, 21; August, 31; September, 32; October, 26; November, 31; December, 36,

The Hospital was opened on the 3rd March, 1927, and from that date to the 31st Dccember, 1927, the confinements were as follows:—

The cases admitted during 1928 were all Maternity and Child Welfare patients, with the exception of one Jessop Hospital case admitted in January.

A number of the 239 cases above mentioned have received ante-natal treatment at the Nether Edge Maternity Hospital.

In 25 instances where the patient was accepted for admission, the application has been cancelled because the births have occurred elsewhere.

Cases sent to various Hospitals from the Maternity Clinic arc as follows:-To the Jessop Hospital—for examination, etc. 72 . . for admission 4 76 10 To the Royal Hospital .. " Royal Infirmary .. 5 . . Relieving Officer or Firvalc 15 3 Tuberculosis Dispensary . . Nether Edge Maternity Hospital 11 . . 120

At the Nether Edge Maternity Hospital during the year there have been :-

- 8 stillbirths.
- 1 mother has died.
- 2 babies have died.
- 1 case of Puerperal Fever.
- 3 cases of Ophthalmia Neonatorum (2 notified after discharge).
- 2 cases of Pemphigus.

Cases on the books at the 31st December, 1928 128

PREVENTION AND TREATMENT OF VENEREAL DISEASES.

The Clinics at the Royal Infirmary, Royal Hospital, Jessop Hospital for Women, and Children's Hospital, which were inaugurated in 1917 in accordance with the scheme which was approved by the Local Government Board, continued in full operation during the year 1928.

It will be noted from Table XLI that the new cases treated totalled 1,409, as against 1,288 for the previous year and that there was an increase in the number of attendances of patients. The average number of attendances per case was 29·9, which is slightly below the two previous years' figures. It cannot be too clearly understood that the expenditure on the treatment of Veneral Diseases is wasted unless patients remain under treatment until a permanent cure can be guaranteed. This is the main argument in favour of notification and compulsory treatment of these diseases. At the same time one can see no reason why persons who can afford to do so should not pay the whole or some part of the cost of their treatment.

The total cost of treatment during the year was £6,626 which is the highest since 1923 and is accounted for by the larger number of cases treated.

Table XLII. gives particulars of pathological examinations made in the Bacteriological Laboratory of the University, of specimens sent for diagnostic puposes by medical practitioners residing in the City.

Table XLIII. gives particulars of all the Clinics in connection with the Sheffield scheme, together with a statement of the average number of patients attending during each quarter of the year.

Table XLIV. gives a summary of the returns from the several hospitals with regard to persons dealt with, distinguishing between Sheffield residents and residents of other districts who have come in for treatment. It should be pointed out that, while the latter receive treatment at the expense of the Department, the Department is recouped in the grant from the Ministry of Health, which in the case of the Venereal Disease account is fixed at 75 per cent., whereas in the case of other grant-aided schemes the percentage is 50.

91

TABLE XLI.—Venereal Diseases.—Cases Treated and Cost of Treatment since 1919.

					W			1		
	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928
Total Persons dealt with for the first time	2,798	2,418	1,967	1,399	1,430	1,403	1,196	1,300	1,288	1,409
Total Persons dealt with	4,029	4,876	4,464	3,896	3,747	3,034	2,938	3,089	2,835	2,986
Total Attendances at the Out-patient Clinics	20.01	28,370	30,366	27,529	38,013	38,057	35,423	44,305	40,544	42,184
Average number of Attendances per case	10.1	11.7	15.4	19.7	26.6	27 · 1	29.6	33.9	31.5	29.9
Total "In-patient days" of Treatment	3,197	2,893	2,044	2,157	2,859	1,779	1,905	1,686	2,351	1,716
Total Cost of Treatment dur- ing financial year ended March following										
	£7,919	£9,463	£8,140	£6,720	£6,853	£6,246	£6,293	£6,299	£6,513	£6,626
Person dealt with for the first time	£2/16/7	£3/18/3	£4/2/9	£4/16/1	£4/15/10	£4/9/0	£5/5/3	£4/16/11	£5/1/2	£4/14/1

TABLE XLII.—Venereal Diseases.—Pathological Examinations made in the Bacteriological Laboratory of the Sheffield University during each year since 1919

	l				<u> </u>		-			
Nature of Test.					Numb	er of Te	sts.			
nature of Test.	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928
For detection of Spirochetes— For Treatment Centres For Practitioners	5 7	1 3		2 6	3 2	2 4	2 2	3	4 7	13 5
For detection of Gonococci— For Treatment Centres For Practitioners	5,119 71	5,728 92	5,332 201	4,079 340	3,550 561	3,278 598	2,829 584	2,595 531	2,266 572	2,172 622
For Wassermann reaction— For Treatment Centres For Practitioners	2,929 159	3,492 151	2,227 1,197	1,505 1,160	1,528 1,459	1,349 2,013	1,337 2,173	1,178 2,386	1,618 2,696	1,527 2,929
OTHER EXAMINATIONS. Gonococcal Complement Fixation Tests— For Treatment Centres For Practitioners	•••	1,226	333 4	62	$\frac{3}{2}$	1 				
Cultural Tests— For Treatment Centres For Practitioners	•••				57	4 9	3 4		10	3
Totals	8,290	10,693	9,297	7,166	7,165	7,258	6,934	6,708	7,179	7,271

TABLE XLIII.—Venereal Diseases.—Clinics and Attendances during 1928.

Institution	Medical Officer	Davs and Hours of Consultations.	Aver	rage Numb	oer of Pati	Average Number of Patients attending	ing
			lst Quarter	2nd Quarter	3rd Quarter	4th Quarter	Whole
Royal Infirmary	Dr. Rupert Hallam	Monday, 1.30 p.m. to 4 p.m. (Syphilis) Tuesday, 1.30 p.m. to 4 p.m. (Syphilis) Thursday, 1.30 p.m. to 4 p.m. (Syphilis)	22 43 43	23 38 38	24 33 39	21 38 41	23 38 40
	Dr. T. B. Mouat to 31/10/28 Dr. W. J. Lytle from 1/11/28 Dr. Rupert Hallam Dr. T. B. Mouat to 31/10/28 Dr. W. J. Lytle from 1/11/28	Dr. T. B. Mouat to 31/10/28 Friday, 2 p.m. to 4.30 p.m. (Gonorrhæa) Dr. W. J. Lytle from 1/11/28 Wednesday, 6 p.m. to 8 p.m. for Males only, Syphilis and Gonorrhæa Dr. T. B. Mouat to 31/10/28 and Gonorrhæa	23 95	178	19	16 85	19 87
Royal Hospital	Dr. E. F. Skinner	Tuesday, 11 a.m. to 1 p.m. Men and Women (Syphilis) Thursday, 11 a.m. to 1 p.m., Women only do. Thursday, 7 p.m. to 9 p.m., Men only do. Saturday, 2 p.m. to 4 p.m., Men only do.	8 13 14 14	88 110 111	13 10 9	7 1 2 6 9 9 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	8 14 10 12
	Dr. J. B. Ferguson Wilson	Tuesday, 7 p.m. to 9 p.m., Men only (Gonorrhea) Friday, 7 p.m. to 9 p.m., Men only do	34	37 40	38	39	37
Jessop Hospital for Women	Dr. J. Chisholm	Tuesday, 5 p.m. to 7.30 p.m	31 255 13	30 30 15	31 12	32 32 12	31 30 13
Children's Hospital	Dr. H. Leader	Wεdnesday, 2 p.m. to 4.30 p.m	12	16	13	15	14

Total 1,288 1,300 1,196 552 482 300 75 1,409 26,052 11,136 4,274 722 42,184 44,305 35,423 31 118 1,435 132 1,716 2,351 1,686 1,905 40,544 TABLE XLIV.—Venereal Diseases. Summary of Returns with regard to Persons dealt with, Attendances, etc. during the year 1928, and three previous years. Other 49 18 __ ___ 224 18 Lines. COUNTIES Derbys. 01 01 01 01 208 172 191 193 36 37 37 725 808 651 36 247 14 186 09 5929 PATIENTS Notts. 38 26 42 91 45 373 420 321 317 79 50 29 Y'ks.W.R. OF 86 101 95 572 294 402 12 1,337 1,809 1,701 1,280 375 213 181 44 98 $\frac{21}{354}$ RESIDENCE Other 23 312 127 — 12 520 520 1 OF Leeds 13 13 AREA Sheffield | Roth'h'm | Barnsley | Don's'ter | COUNTY BOROUGHS 169 148 117 117 49 260 358 701 415 16 13 22 9 31 11 291 35 39 39 585 19 25 34 32 40 56 554 881 606 651 3,582 ... 36,666 ... 39,510 ... 31,505 ... 23,478 1,792 1,405 1,541 467 437 243 57 1,097 1,069 940 31 97 940 103 1204 1,171 ... 38,185 : : : : : • : : : Children's Hospital Jessop Hospital Children's Hospital Children's Hospital Royal Infirmary Royal Hospital Jessop Hospital : • • Royal Infirmary Royal Hospital Royal Infirmary Jessop Hospital Royal Hospital Totals, 1927 Totals, 1926 Totals, 1925 Totals, 1927 Totals, 1926 Totals, 1925 Totals, 1926 Totals, 1925 Totals, 1928 Totals, 1928 Totals, 1928 Totals, 1927 Persons dealt with for the first time at or in connection with the Aggregate number of "In-patient Total attendances at the Outdays" of all patients Out-patient Clinics patient Clinics

SALE OF FOOD AND DRUGS ACTS.

 TABLE XLV.—Results of Analyses during 1928.

Article			Total Samples	Formal	Samples	Informal Samples			
			Submitted	Genuine	Adulterated	Genuine	Adulterated		
Milk	•••		822	643	16	154	9		
Separated Milk	• • •	•••	4	4	•••	•••	•••		
Skimmed Milk			7	7		•••	•••		
Cream	•••		19	1		18	•••		
Emulsified Cream			1	•••		1	•••		
Cream Checse			2	•••	•••	2			
Butter	• • •		47	7		40			
Margarine			3	2	•••	1	• • •		
Lard	• • •		1	1	•••	• • •	• • •		
Brawn	• • •		3 .	•••		3	•••		
Potted Mcat	• • •		32	2	1	24	5		
Sausages	• • •		19	1		18	•••		
Sausage Meat		• • •	3	• • •		3	•••		
Mustard			1	• • •		•••	1		
Pepper			2	•••		1	1		
Vinegar			37	• • •	7	23	7		
Yorkshire Relish			1	• • •	•••	1	•••		
Baking Powder	• • •		16	1		14	1		
Ground Ginger			1	$_{\parallel}$		•••	•••		
Cream Sandwich			1	•••	•••	1	•••		
Flour			6	•••	•••	6	•••		
Bread	• • •		2	•••		2	•••		
Coffee	• • •	•••	10	1	1	5	3		
Coffee and Chicory	• • •	• • •	2	• • •	•••	2	•••		
Candied Peel	• • •	• • •	1	•••	•••	1	•••		
Jam	• • •	• • •	6	•••	•••	6	•••		
Honey	• • •	• • •	2	•••	•••	$\frac{2}{2}$	•••		
Mince Meat	• • •	• • •	$\frac{2}{2}$	•••	•••	$\frac{2}{2}$	•••		
Raisins	• • •	• • •	5	•••	•••	5	•••		
Iee Cream	• • •	•••	12	•••	•••	12	•••		
Mineral Waters	• • •	• • •	6	•••	•••	6	•••		
Sago	• • •	• • •	$\frac{7}{2}$	•••	•••	7	•••		
Sweet Meats	• • •	•••	$egin{array}{c} 2 \\ 2 \\ 4 \\ 5 \end{array}$	•••	•••	$egin{array}{c} 2 \\ 2 \\ 2 \\ 5 \end{array}$	•••		
Apples	• • •	• • •	2	•••	•••	2	•••		
Beer	• • •	•••	4	2	•••	2 ~	•••		
Brandy	• • •	•••		• • •	•••		•••		
Whisky	• • •	• • •	4	* * *	•••	4	•••		
Rum	• • •	• • •	11		•••	11	•••		
Camphorated Oil	• • •	•••	$rac{5}{2}$	2	•••	3	•••		
Friars Balsam	•••	• • •				$\frac{2}{1}$	•••		
Sweet Spirit of Nitr		•••	4 1	1	$oxed{2}$	1			
Glyeerine Powdered Borax	• • •	• • •	l l	1	•••	 1	•••		
rowdered Dorax	•••	•••	1	•••	***	1	•••		
Total	•••		1,124	677	27	393	27		

Proceedings taken under the Sale of Food and Drugs Acts.

Nature of Samples	Number of Cases	Results
Milk	15	Fines—One £35; five others totalling £9 10 0; five Vendors warned; four Vendors warned and charged Costs.
Coffee	3	Fines—One £5; two Vendors warned.
Vinegar	7	Fines—Three totalling £7; four Vendors fined.
Sweet Nitre	2	Fines—£3.
Potted Meat	1	Fine—£2.

CONTROL OF MILK SUPPLY.

	Number	Cost
Chemical Analyses of Milk under Sale of Food and Drugs Acts Biological tests of Milk for Tuberculosis	852 1,071	£ s. d. 511 4 0 803 5 0
Microscopical examinations of Milk for Tubereulosis Clinical examinations of Cows	7,733	Work done by Veterinary Depart- ment Staff.

For further particulars see report under Sale of Food and Drugs Section (page 94), also report of Chief Veterinary Inspector, which follows (page 98), for results of examinations, etc.

PATHOLOGY AND BACTERIOLOGY.

TABLE XLVI.—Bacteriological Examinations at the Sheffield University during the year 1928.

MONTH	Swabbings for Diphtheria	Serum for Typhoid	Biological Test of Milk for Tubercle Bacilli
January February March April June July August September October November	266 320 305 247 261 197 167 156 202 243 250 231	45 38 135 40 61 58 53 33 86 129 51 64	104 79 88 50 81 123 94 111 89 70 52 130
Totals	2,845	793	1,071
Cost— 2,845 Examinations of the control of the con	of Swabbings for Diph Serum for Typhoid a Milk for Tuberculosi	at 5/	£ s. d. 497 17 6 198 5 0 803 5 0
Special Examinations—			

76 Special Examinations, fees ranging from 10/6 to £1 1 0

TOTAL 1572 12 0

Notes.—(1) In addition to the examinations carried out at the University, 254 microscopical examinations of Milk for Tubercle Bacilli were made at the Veterinary Department by the Staff; and 3,671 microscopical examinations of Sputa for Tubercle Bacilli were made by the Staff of the Tuberculosis Dispensary.

(2) Particulars of Examinations in connection with the Venereal Diseases Clinics are given in a table on page 91.

METEOROLOGY.

TABLE XLVII.—Meteorology during 1928. Records taken at Weston Park (430' above sea level).

Mean Barometer Corrected.	Mean Daily Sunshine (Hours).	Grass Minimum. Mean Daily Temperature	Soil 1 Foot. Mean Daily Temperature	Soil 4 Feet. Mean Daily Temperature	Air Maximum. Mean Daily Temperature	Air Minimum. Mean Daily Temperature	Total Rainfall. for the week. (Inches).
$29 \cdot 92$ $29 \cdot 70$ $29 \cdot 80$ $29 \cdot 88$	$\begin{array}{c c} 0.8 \\ 2.0 \\ 1.5 \\ 2.0 \end{array}$	32 35 33 31	$35 \cdot 6$ $37 \cdot 7$ $38 \cdot 1$ $38 \cdot 9$	40·1 40·1 40·4 40·8	45 48 46 46	35 39 37 36	$ \begin{array}{c} 2 \cdot 05 \\ 0 \cdot 88 \\ 1 \cdot 47 \\ 1 \cdot 51 \end{array} $
$29 \cdot 91$ $29 \cdot 76$ $30 \cdot 47$	$\begin{array}{c c} * \\ 2 \cdot 0 \\ 1 \cdot 3 \\ 2 \cdot 5 \end{array}$	* 34 38 33	$ \begin{array}{c} * \\ 39 \cdot 1 \\ 39 \cdot 5 \\ 39 \cdot 5 \end{array} $	$ \begin{array}{c} 40 \cdot 3 \\ 40 \cdot 3 \\ 40 \cdot 5 \\ 41 \cdot 1 \end{array} $	* 48 49 48	* 38 40 37	$ \begin{array}{r} 1 \cdot 45 \\ 1 \cdot 58 \\ 1 \cdot 63 \\ 0 \cdot 94 \end{array} $
$ \begin{array}{r} 30 \cdot 15 \\ 30 \cdot 09 \\ 30 \cdot 17 \\ 29 \cdot 54 \\ 29 \cdot 39 \end{array} $	$ \begin{array}{c c} 2 \cdot 1 \\ 1 \cdot 6 \\ 0 \cdot 4 \\ 2 \cdot 4 \\ 4 \cdot 0 \end{array} $	33 34 30 37 33	$ \begin{array}{c c} 38 \cdot 8 \\ 40 \cdot 9 \\ 37 \cdot 0 \\ 41 \cdot 6 \\ 42 \cdot 2 \end{array} $	$\begin{array}{ c c c }\hline 40.9 \\ 41.3 \\ 41.0 \\ 40.9 \\ 42.1 \\\hline \end{array}$	49 46 40 54 51	36 37 31 41 38	0.88 0.39 0.63 0.41 0.74
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c c} 5 \cdot 8 \\ 2 \cdot 4 \\ 3 \cdot 6 \\ 3 \cdot 5 \end{array} $	33 40 27 36	$\begin{array}{c c} 42 \cdot 4 \\ 46 \cdot 0 \\ 41 \cdot 5 \\ 44 \cdot 5 \end{array}$	$\begin{array}{ c c c }\hline & 42 \cdot 4 \\ & 43 \cdot 5 \\ & 44 \cdot 0 \\ & 43 \cdot 3 \\ \hline \end{array}$	52 55 44 61	38 43 32 42	$\begin{array}{c c} 0.46 \\ 0.36 \\ 0.21 \\ 0.07 \end{array}$
$ \begin{array}{ c c c c c } \hline 29.87 \\ 30.04 \\ 29.84 \\ 30.08 \end{array} $	$ \begin{array}{ c c c c } \hline & 3.5 \\ & 6.7 \\ & 1.2 \\ & 2.1 \\ \hline \end{array} $	44 35 37 40	$ \begin{array}{ c c c c } \hline 48.0 \\ 48.5 \\ 47.6 \\ 47.1 \end{array} $	$ \begin{vmatrix} 45 \cdot 1 \\ 46 \cdot 4 \\ 46 \cdot 7 \\ 46 \cdot 6 \end{vmatrix} $	58 56 52 54	45 40 41 42	$ \begin{array}{c c} 0 \cdot 28 \\ 0 \cdot 02 \\ 0 \cdot 89 \\ 0 \cdot 23 \end{array} $
$ \begin{array}{r} 30 \cdot 17 \\ 29 \cdot 77 \\ 29 \cdot 92 \\ 29 \cdot 94 \\ 29 \cdot 90 \end{array} $	$ \begin{array}{ c c c } 4 \cdot 6 \\ 4 \cdot 6 \\ 6 \cdot 0 \\ 6 \cdot 3 \\ 6 \cdot 0 \end{array} $	45 43 41 45 48	$ 52 \cdot 9 52 \cdot 8 53 \cdot 6 54 \cdot 3 56 \cdot 6 $	47.6 49.4 50.3 50.9 52.2	66 61 61 63 62	49 47 45 48 50	$\begin{array}{c c} 0.01 \\ 1.13 \\ 1.42 \\ 0.30 \\ 0.98 \end{array}$
$ \begin{array}{ c c c c } \hline 29.96 \\ 30.18 \\ 30.27 \\ 29.97 \end{array} $	$ \begin{array}{ c c c } \hline & 4 \cdot 8 \\ & 10 \cdot 8 \\ & 11 \cdot 0 \\ & 4 \cdot 2 \\ \hline \end{array} $	47 50 49 53	$ \begin{array}{ c c c c } \hline 56 \cdot 9 \\ 59 \cdot 2 \\ 61 \cdot 3 \\ 60 \cdot 9 \end{array} $	$ \begin{array}{c c} 53 \cdot 0 \\ 53 \cdot 9 \\ 55 \cdot 9 \\ 56 \cdot 6 \end{array} $	64 74 71 68	51 55 56 56	0·23 — — 0·08
$ \begin{array}{c c} 30.00 \\ $	7·0 * 5·5 4·4	43 * 49 50	58·0 * 59·1 58·4	$ \begin{array}{c c} 56.8 \\ 56.2 \\ 56.5 \\ 56.3 \end{array} $	63 * 66 68	47 * 53 54	0·39 * 0·23 0·96
$ \begin{array}{ c c c c c } \hline 29 \cdot 93 \\ 30 \cdot 06 \\ 30 \cdot 27 \\ 30 \cdot 29 \\ 30 \cdot 02 \end{array} $	$ \begin{array}{c c} 6 \cdot 6 \\ 6 \cdot 2 \\ 3 \cdot 2 \\ 4 \cdot 5 \\ 1 \cdot 6 \end{array} $	46 48 43 41 40	$58 \cdot 4$ $57 \cdot 9$ $56 \cdot 6$ $54 \cdot 4$ $51 \cdot 8$	$ \begin{array}{c c} 56 \cdot 7 \\ 56 \cdot 3 \\ 56 \cdot 2 \\ 55 \cdot 4 \\ 54 \cdot 1 \end{array} $	66 71 65 60 56	51 53 49 47 44	$ \begin{array}{c c} 1 \cdot 04 \\ 0 \cdot 09 \\ 0 \cdot 05 \\ 0 \cdot 01 \\ 0 \cdot 08 \end{array} $
$ \begin{array}{ c c c c } \hline 30.18 \\ 29.86 \\ 29.85 \\ 29.50 \end{array} $	$ \begin{array}{c c} 3 \cdot 6 \\ 2 \cdot 2 \\ 2 \cdot 4 \\ 3 \cdot 5 \end{array} $	37 43 43 38	$49 \cdot 3$ $50 \cdot 5$ $49 \cdot 5$ $47 \cdot 9$	$ \begin{array}{c c} 52.7 \\ 51.9 \\ 51.3 \\ 50.6 \end{array} $	56 57 56 53	43 46 45 43	$ \begin{array}{c c} 0 \cdot 25 \\ 1 \cdot 99 \\ 0 \cdot 95 \\ 1 \cdot 47 \end{array} $
$ \begin{array}{ c c c c } \hline 29.79 \\ 29.97 \\ 29.51 \\ 29.62 \end{array} $	$ \begin{array}{c c} 2 \cdot 3 \\ 1 \cdot 3 \\ 2 \cdot 3 \\ 1 \cdot 1 \end{array} $	40 34 42 41	$ \begin{array}{c c} 47 \cdot 3 \\ 44 \cdot 0 \\ 45 \cdot 6 \\ 45 \cdot 4 \end{array} $	$ \begin{array}{c c} 49.8 \\ 48.6 \\ 47.5 \\ 47.3 \end{array} $	51 47 55 54	42 38 45 44	$ \begin{array}{c c} 0 \cdot 29 \\ 0 \cdot 25 \\ 1 \cdot 29 \\ 2 \cdot 57 \end{array} $
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c} 3 \cdot 0 \\ 1 \cdot 8 \\ 0 \cdot 3 \\ 1 \cdot 6 \\ 0 \cdot 4 \end{array} $	38 31 29 30 32	$\begin{array}{c c} 42.8 \\ 40.6 \\ 37.4 \\ 36.8 \\ 38.3 \end{array}$	$\begin{array}{c c} 46.8 \\ 45.5 \\ 43.8 \\ 42.3 \\ 41.7 \end{array}$	49 45 38 45 45	41 35 31 35 36	$\begin{array}{c} 0.71 \\ 0.16 \\ 0.68 \\ 0.18 \\ 0.91 \end{array}$
	Barometer Corrected. 29 · 92 29 · 70 29 · 80 29 · 88 * 29 · 91 29 · 76 30 · 47 30 · 15 30 · 09 30 · 17 29 · 54 29 · 39 29 · 75 29 · 64 29 · 88 30 · 00 29 · 87 30 · 04 29 · 84 30 · 08 30 · 17 29 · 77 29 · 92 29 · 94 29 · 90 29 · 96 30 · 18 30 · 27 29 · 97 29 · 97 29 · 97 29 · 97 29 · 97 29 · 85 29 · 75 29 · 85 29 · 75 29 · 86 29 · 85 29 · 85 29 · 50 29 · 89 30 · 02 30 · 18 29 · 86 29 · 85 29 · 50 29 · 89 30 · 21 29 · 81	Barometer Corrected. Sunshine (Hours). 29·92	Mean Barometer Corrected. Mean Daily Sunshine (Hours). Minimum. Mean Daily Temperature 29·92 0·8 32 29·70 2·0 35 29·80 1·5 33 29·88 2·0 31 * * * 29·91 2·0 34 29·76 1·3 38 30·47 2·5 33 30·15 2·1 33 30·09 1·6 34 30·17 0·4 30 29·54 2·4 37 29·84 2·4 37 30·00 3·5 36 29·87 3·5 44 30·04 6·7 35 29·84 1·2 37 30·08 2·1 40 30·17 4·6 45 49·99 4·6 3 29·94 6·3 45 29·95 4·6 48 30·27 1·0 49 </td <td> Mean Daily Sunshine (Hours). Mean Daily Temperature Temperature </td> <td> Mean Barometer Corrected. Mean Daily Temperature Mean Daily Temperature Mean Daily Temperature Mean Daily Mean Daily Temperature Mean Daily Temperature Mean Daily Mean Daily Temperature Mean Daily Temperature Mean Daily Mean</td> <td> Mean Barometer Mean Daily Sunshine (Hours).</td> <td> Mean Daily Carrected. Minimum. Soil 1 Foot. Soil 4 Feet. Soil 4 Feet. </td>	Mean Daily Sunshine (Hours). Mean Daily Temperature Temperature	Mean Barometer Corrected. Mean Daily Temperature Mean Daily Temperature Mean Daily Temperature Mean Daily Mean Daily Temperature Mean Daily Temperature Mean Daily Mean Daily Temperature Mean Daily Temperature Mean Daily Mean	Mean Barometer Mean Daily Sunshine (Hours).	Mean Daily Carrected. Minimum. Soil 1 Foot. Soil 4 Feet. Soil 4 Feet.

^{*} Records not available.

REPORT OF THE CHIEF VETERINARY INSPECTOR

FOR THE YEAR 1928.

DISEASES OF ANIMALS ACTS AND ORDERS.

The following is a list of the Contagious Diseases which are scheduled under the above :—
Anthrax, Foot and Mouth Disease, Parasitic Mange of Horses, Rabies, Sheep Scab,
Swine Fever, Cattle Plague, Pleuro Pneumonia, Sheep Pox, Epizootic Lymphangitis,
Glanders and Farcy, Epizootic Abortion of Cattle.

Of the above, no outbreaks of Cattle Plague have been reported since 1877, nor of Plcuro Pneumonia since 1898, nor of Sheep Pox since 1850, nor of Epizootic Lymphangitis since 1906.

Anthrax.

One suspected outbreak of Anthrax was reported on premises in the City. This outbreak was investigated but the presence of the disease was not confirmed.

Cases of Anthrax in animals occur periodically and the great importance of not attempting to cut or dress an animal taken ill suddenly and found on the point of death or an animal found dead is impressed upon stock owners because of the risk of human infection.

Rabies.

No case of Rabies has occurred in Great Britain since 1922, and with a view to preventing the introduction of Rabies from abroad, imported dogs have to be detained and isolated for 6 months on premises approved by the Ministry of Agriculture unless brought in for performing purposes. They are licenced to these places by the Ministry and kept under supervision by the Local Authority. In the latter case they are permitted to go from different places of performance and detained and isolated at these places.

These regulations are carried into effect when imported animals arrive in Sheffield. Suspected cases of Rabies are also reported to the Department, such as dogs suffering from hysteria and convulsions. These cases are investigated and kept under observation.

Foot and Mouth Disease.

Two cases of suspected Foot and Mouth Disease were reported on premises in the City. These were investigated and the existence of the disease was confirmed.

The affected and contact animals were slaughtered and those found affected were sent to the Corporation Destructor and burned.

It was found that the source of infection must have originated from a cattle market from which the affected animals came to Sheffield.

The usual precautions as to disinfection of the premises and everything which had been in contact with the affected animals were carried out.

In connection with these outbreaks all movements of animals were controlled by licences issued by this Department or by Inspectors of the Ministry of Agriculture.

Parasitic Mange.

One suspected case of this disease was investigated during the year, but the disease was not confirmed.

One of the first Orders dealing with Parasitic Mange was granted by the Ministry of Agriculture and Fisheries to Sheffield, and the value of the precautions taken under the Order is shown by the fact that the disease in Sheffield is now almost non-existent.

Swine Fever.

Eighty-three cases of illness or death of pigs were reported during the year to the Ministry of Agriculture and Fisheries in compliance with the Swine Fever Order. These cases were investigated by the Veterinary Inspectors of the Ministry and four confirmed as Swine Fever. The carcases of affected animals were destroyed at the Corporation Destructor, and the usual precautions were taken with regard to disinfection of the infected premises, isolation of contact pigs and supervision of their slaughter ready for the butcher or the destruction of carcases of animals subsequently becoming diseased.

Infected premises are generally kept under restrictions for at least three months, but where pigs subsequently die, the premises are only declared free two months after the death of the last pig. Pigs may only be moved from infected premises on a licence granted by an Inspector of the Ministry of Agriculture, and then only if found healthy, and only to a slaughterhouse for immediate slaughter.

Swine Erysipelas.

This disease causes death in considerably more pigs than does Swine Fever, but it is not a scheduled disease by the Ministry of Agriculture and therefore no restrictions on movement of animals or disinfection of the premises are placed on the owners of affected animals. Of the 83 cases of deaths amongst pigs in the City a large percentage was due to Erysipelas infection. In most of these cases the owners were advised as to the precautions which they should take in regard to preventive measures against the spread of the disease to other pigs.

Epizootic Abortion.

No cases of this disease were found in the City during the year. The Epizootic Abortion Order prohibits the exposure of affected animals in markets, the sale privately of affected animals without previous information being given to the intending purchaser and the service of cows within two months of premature calving.

Orders and Regulations.

In addition to the numerous Acts and Orders at present in force in relation to Contagious Diseases of Animals, Meat, Milk and Food inspection generally, the following Orders and Regulations were issued by the Ministry of Agriculture during the year 1928 and which it is incumbent on the Local Authority to execute and enforce:—

Importation of Careases (Prohibition) (Amendment) Order, 1928.

Foot and Mouth Disease (Boiling of Animal Foodstuffs) Order, 1928.

Sheep Scab Order, 1928.

Foot and Mouth Disease Order, 1928.

Pleuro-pneumonia Order, 1928.

Cattle Plague Order, 1928.

Quarantiné Stations (Regulation) Order, 1928.

Regulation of Movement of Swine (Adjustment of Boundary) Order, 1928.

Sheep Scab (Amendment) Order, 1928.

Birkenhead Imported Animals Wharf Order, 1928.

Quarantine Stations (Regulation) Order, 1928 (No. 2).

Amendment of Chap. 6 (Protection of Animals) of the Foreign Animals Order of 1910 and in Part 7 (Protection of Animals) of the Importation of Canadian Cattle Order of 1923. Foreign Hay and Straw (Amendment) Order, 1928.

Foot and Mouth Disease (Infected Areas Restrictions) (Amendment) Order, 1928.

Importation of Dogs and Cats Order, 1928.

Tuberculosis Order, 1925.

During the year 572 inspections of the herds in the city were carried out by the Veterinary Inspectors, 49 cows were found suffering from scheduled forms of tuberculosis and were slaughtered under the Order. Of these 20 were found affected with tuberculosis of the udder and 29 with other forms of tuberculosis.

Table showing the number of animals dealt with and the total compensation paid under the Order since it came into force on September 1st, 1925.

	Ser	otDe 1925.	c.	JanD 1920			nE 1927			D∉ 928.	
Estimated number of eows in herds											
examine	\mathbf{d}	1300		3854	:	3	076		2	970	
No. of animals slaughtered		27		82	}		57			49	
No. affected with T.B. of the udder		9		32	<u>}</u>		23			20	
No. affected with other forms of T.B.	••	18		50)		34			29	
No. with advanced T.B. on post-morter	n	18		48	;		20			28	
No. not advanced T.B. on post-morter	n	9		34	:		37			21	
			_		_						
	£	S.	d.	£ s.	d.		~ •		£	S.	d.
Total compensation paid	169	0	0	$357 \ 10$	0	331	5	0 ,	272	0	0
Amount of Exchequer Grant	126	15	0	268 2	6	248	8	9	204	0	0
Salvage received	132	19	4	304 9	1	248	5	2	223	2	2
Exeess salvage paid	4	14	4	40 5	9	6	5	8	2	0	5
Balanee towards administration.	86	0	0	174 15	10	153	3	3	153	1	9

DAIRY INSPECTION.

Under the Milk and Dairies (Consolidation) Act, 1915, the Milk and Dairies (Amendment) Act, 1922, and the Milk and Dairies Order, 1926, the applications of milk retailers for registration were dealt with by the Sanitary Sub-Committee. 362 applications were granted, 17 were refused, and 12 were withdrawn. There was one appeal against the decisions of the Committee to refuse registration or remove from the register, which was upheld. Twenty-six prosecutions were taken.

The Sheffield Health Committee, exercising their powers under the above Acts and Orders, requested that milk retailers before being registered to retail milk within the City should provide on their premises a dairy wash-house, apart from their dwelling house, where milk vessels must be washed and stored. A dairy in which to store milk is also required in the ease of those who do so and have no hot water supply other than by lighting a fire in the dairy wash-house.

The following list of suggestions was sent to the retailers in order that they might comply with the above requirements and visits were made by the Veterinary and Dairy Inspectors to the premises of retail purveyors.

Dairy accommodation for persons residing outside the City and retailing milk within the City.

To entitle an applicant to registration, the Health Committee of the City Council require satisfactory separate accommodation for washing and storing the milk vessels and for cooling and storing milk. This can best be obtained by providing:—

A separate *dairy wash-house*, constructed of stone, brick or concrete, with a concrete or slated roof, and with a concrete floor levelled to earry liquid through a weep-hole under the sink discharging over a gully outside.

The internal surface of the walls should be rendered with sand and eement finished to a smooth surface so as to be easily eleansed.

The building should be efficiently lighted and ventilated by means of windows and air-grates, and in ease of a slated roof the latter should be underdrawn so as to be made dust-proof.

A glazed stoneware sink provided with a stopper and large enough and deep enough to allow milk bottles to be sunk in it should be placed where a good light is available and the waste-pipe should be made to discharge over a gully outside.

Where a piped supply of water is available, cold water should be piped to a tap over the sink and where a hot water system is provided in the house, hot water probably may be piped over the sink in a similar manner. If a hot water system is not in existence a set-pot boiler

should be built in the dairy wash-house to provide hot water independently, or the latter may be obtained from a copper boiler heated by gas or some other means.

Sawn stone benching should be provided about 1ft. 9in. wide and placed at a sufficient height from the floor to allow churns and large bottles to stand underneath, small churns and bottles being stored on the bench.

Dairy.—Separate accommodation apart from the dairy wash-house should be provided for cooling and storing the milk. The structure of the dairy should be practically the same as the dairy wash-house and all windows and other openings should be covered with 1/32in. mesh wire gauze to make the dairy fly-proof. Where hot water is available without having to light a fire in the dairy wash-house, the milk might be stored in churns from night until morning, the one building being used as a combined dairy and dairy wash-house.

Drainage.—An efficient system of drainage to take away the water used in washing the milk vessels and the surface water from the floors should be provided and should be connected to a drainage system or public sewer.

Situation.—If possible, the dairy and dairy wash-house should be so situated as to have a northern aspect, and for convenience it should be somewhere in the vicinity of the cowshed, but not connected therewith, and should be some distance away from the manure pit or a privy or pail closet.

A careful supervision of the sanitation of cowsheds in the City and the production and handling of the City's milk supplies was made by the Veterinary and Dairy Inspectors.

Graded Milk.—Under the Milk (Special Designations) Order issued by the Ministry of Health, four grades of milk are mentioned—" Certified," "Grade A (Tuberculin Tested)," "Grade A," and "Pasteurised." One application has been made for a licence to sell certified milk and two applications have been made with regard to pasteurised milk.

Elimination of Tuberculous Infection from the City's milk supply.—In this connection there are 156 cowkeepers resident within the City, the milk from these herds being principally retailed by the owners within the City. The herds were examined five times during the year, and the milk from any diseased animal was prohibited for human consumption.

The total maximum number of cows kept in the City was 2,228, allowing each cow to be in a City cowshed 8 months, it follows that about 742 fresh cows must be added to that number, making about 2,970 in the City cowsheds to be examined during the year.

The number of inspections of city cows made was 6,732, and 22 cows having tubercular udders were discovered—equal to a percentage on 2,970 of 0.74. The number of visits made by the Veterinary Inspectors to the city farms was 572.

During the year 1,027 samples of mixed milk brought into the City were taken for bacteriological examination, 65 of which, equal to 6.3 per cent. gave a positive result, whilst 962 were negative.

In following up the 65 tuberculous samples, 84 visits were made to 67 farms and the udders of 1,001 cows examined. 44 cows suffering from tuberculosis of the udder and giving tuberculous milk, and 8 cows with other forms of tuberculous infection were found. At three farms no cows with tubercular udders were found on the date of our examination, but it was ascertained from the officers of the Local Authorities concerned that a cow at each of the three farms had been slaughtered during the period of the sample undergoing the biological test and found suffering from tuberculosis of the udder, thus making a total of 47 cows with tuberculosis of the udder.

Control samples.—Altogether 73 control samples were taken representing 67 farms. 17 of these samples, equalling 23.2 per cent. were found tuberculous. These tuberculous controls were investigated and the cows whose milk was included in them were re-examined.

Special samples.—A total of 254 special samples was taken, 100 being from city cows, 22 of which were positive, and 154 from country cows, 44 of which were positive.

Twenty-two of the city cows and 31 of the country cows were found giving tuberculous milk by bacteriological examination of the milk alone, and 13 of the country cows and one of the city cows were found by the biological test. Three cows giving tuberculous milk were also found by the County Authorities, making a total of 69 cows giving tuberculous infection in their milk supply.

Mixed samples.—A mixed sample is a sample of milk from the mixed milk of a herd, sent into Sheffield for sale by rail or road conveyance.

Control samples.—A control sample is a sample of milk taken from a herd that is being inspected either during routine inspection or following up a tuberculous milk sample.

Special samples.—A special sample is a sample of milk taken from a cow with a suspicious udder found when inspecting herds in the city or country, from which milk is consumed in Sheffield.

During the year 1928, the procedure in dealing with tuberculous infection in the milk supplies coming into the City has been carried out under the Milk and Dairies (Consolidation) Act, 1915. This Act came into force in 1925 and revoked the Milk clauses of the Sheffield Consolidation Act from September, 1926. Now the Milk and Dairies Act requires the Local Authority of the area from which the tuberculous milk was sent to make investigations into the source of the infection and notify the time of their intended visit and examination of the herd, so that the consuming area's officers may also be present. Since September, 1926, this alteration in the procedure has been carried out, and the investigations made were in conjunction with the Local Authority of the producing area.

The Tuberculosis Order of 1925 works in conjunction with the tracing of tuberculous milk under the Act, namely, it empowers the slaughter of animals which are the source of tuberculous infection in the milk supply. It also empowers Local Authorities to slaughter other animals suffering from certain forms of tuberculosis which may not be actual sources of infection of the milk supply at present, but are potential sources of spread of the disease to their milk supply, and are infectious to other animals in contact with them.

The value of the diseased animal is agreed upon between the farmer and the Local Authority of the area in which the animal is situated, and a percentage of the valuation is paid to the owner according to the extent of the disease in the carcase on post-mortem examination.

During the year, in the examination of country herds following up tuberculous milk samples coming into the city from outside areas 47 cows suffering from tuberculosis of the udder, giving tuberculous milk, were found, and also 8 cows suffering from other forms of tuberculosis. These animals were all slaughtered by the Local Authorities of the respective areas in which the animals were found. In the City routine examination of all the dairy cows was carried out, and 22 cows suffering from tuberculosis of the udder, giving tuberculous milk, and also 27 cows suffering from other scheduled forms of tuberculosis were found and slaughtered.

In previous years a considerable number of country cows affected with tuberculosis of the udder were sold by the owners, their ultimate destination being concealed. These animals are now being dealt with under the Tuberculosis Order, and all such cows found are slaughtered. The Tuberculosis Order, is, therefore, a valuable Public Health measure in removing cows from dairy herds which are giving tuberculous milk.

Number of Samples of Milk Bacteriologically Examined for Tuberculous Infection.

									,			
								1924.	1925 .	1926.	1927.	1928.
Mixed	l Samples	3	•••					966	913	000	1100	700-
	Number fo			0118	•••	•••	• • •	73	913	993	1166	1027
	ercentage				•••	•••		7.5	9.8	$64 \\ 6 \cdot 4$	93	65
-	0100110118		•••	•••	•••	•••	***	, 0	9.0	0.4	7.9	6.3
Contr	ol Sample	es	•••	•••	• • •	•••		112	144	102	124	73
N	Tumber fo	ound T	ubercul	lous	•••	•••		21	27	19	22	17
P	ercentage	e	•••	•••	•••	•••		$17 \cdot 85$	18.75	18.6	17.7	$23 \cdot 2$
	, and the second										1,,,	20 2
Sampl	les from o	cows w	ith susp	picious	udders			146	179	302	250	254
/IS 1	, .	D: 1 .	,				1	0.0				
	culous—			•••	• • •	•••	• • •	30	35	15	15	14
Т) o.	Microso	copical	•••	• • •	• • •	•••	45	47	65	63	52
Т)o. '	Total r	umber	found				75	82			
	ercentage		···	Tourid	•••	• • •	• • •	$51 \cdot 37$	45.9	$\begin{array}{c c} 80 \\ 26 \cdot 5 \end{array}$	$\begin{array}{c} 78 \\ 31 \cdot 2 \end{array}$	66
1	crocittag	O	•••	•••	•••	* • •	•••	91.91	40.9	20.9	31.2	$25 \cdot 9$
Estim	ated nun	aber of	cows	on cou	ntrv fa	rms v	vhere					
	nixed mil											
	nfection	···	•••	•••				16,020	14,742	14,025	17,168	14,430
								,	,	11,020	17,100	11,100
Numb	er of co	untry	cows o	elinical	ly exar	nined	for					
tı	uberculos	is of th	e udde	r, in fo	llowing	up tu	ber-					
	ulous miz	ked san	nples			•••		1,282	1,747	1,019	1,540	1,001
	culous	•••	•••		• • •	• • •		52	59	48	60	47
P	ercentage	е	•••	•••	• • •		• • •	4.84	4.05	4.8	3.8	4.6
							_					
	er of city			lly exa	mined	for tu	ber-					
	ulosis of		ter		• • •	• • •	•••	6,950	9,135	10,652	9,771	6,732
	culous	•••	•••	•••	• • •	• • •	• • •	23	20	32	23	22
Percei	ntage	•••	•••	•••	• • •	• • •	• • •	•6†	•5‡	·8°	·7*	·7§
Diana	sal of cov	gg with	tuboro	ulous	uddern .							
J.	sar or cov Cilled	vs with						58	89	80	83	69
	assed	•••	•••	• • •	•••	• • •	• • •	$\frac{36}{34}$	51	37	39	32
	asseu ercentage		•••	•••	•••	• • •	•••	58.6	$57 \cdot 3$	$46\cdot 2$	46.9	$\frac{32}{46 \cdot 3}$
Conde		•••	•••	• • •	•••	• • •	• • •	$\frac{33^{\circ}0}{24}$	38	43	44	37
	ercentage		•••		•••		• • •	$41 \cdot 4$	42.7	53.7	53	53.6
	or otherw			of		•••		17	5	0	0	0
DOIG 0	o the w	100 1000	515110		• • •	•••	•••	1.	U	0	U	

† Percentage on 3,520 only ‡ Do. 3,800 only Do. 3,854 only * Do. 3,076 only § Do. 2,970 only

BACTERIOLOGICAL EXAMINATION OF MILK.

With a view to stopping the sale of milk from an animal affected with tubercular mastitis at the earliest possible moment, all the special samples taken were examined microscopically.

If the examination of the milk microscopically results in the demonstration of tubercle bacilli, the cow is slaughtered forthwith. In practically every case this means that the milk from the rest of the herd is now free from tuberculous infection, whereas if one were to wait for the biological test (i.e. 28 days), then the consumers of milk from this dairy would be drinking tubercle infected milk for this period. As a rule, at the end of 28 days the report comes in that the control sample, that is, the sample from the remainder of the herd, is free from tuberculous infection.

The milk yield per day from each cow is estimated at 2½ gallons, whilst the average number of cows found on the country farms visited during 1928 was 15, and on the city dairy premises 13. Taking into consideration the fact that the milk has been freed from

tuberculous infection for 28 days, then the source of infection has been removed from 945 gallons in the case of country samples, and 819 gallons in the case of city samples per day for 28 days.

In 1928, 31 country cows and 22 city cows were found to be suffering from tuberculosis of the udder by microscopical examination of the special samples. Thus 47,313 gallons (29,295 and 18,018) of milk were freed from infection, which otherwise would have been tubercle infected and consumed in the City.

Bacteriological Examinations for Tuberculosis made in following up Positive Mixed Samples, and in Ordinary Inspection of City Cows, during 1928.

> 14 returned positive 141 ,, negative

Thus definite results have been obtained from 207 samples of milk, and of these 66 have been proved definitely positive. Out of this 66, 52 were found microscopically, or a percentage of 78.7.

99 negative microscopic samples were not examined by the biological test, as the microscopical examination showed the presence of organisms other than Tubercle Bacilli, or other evidence was present that the disease in the udder from which the sample was taken was not of a Tuberculous nature.

17 samples of sputum from suspected tubercular cows were examined microscopically.

12 contained tubercle bacilli.

5 were negative.

These microscopic examinations of milk samples in addition to clinical inspections and the examination of sputum, urine, etc., were carried out in the diagnosis of cows suffering from tuberculosis before slaughter under the Tuberculosis Order, 1925.

Complaints are periodically received from customers in regard to their milk supply, either from the presence of some unusual colour such as blood or some abnormal taste. In such cases samples are taken by the Food and Drugs Inspector and submitted to the City Analyst and to this laboratory.

In this way it is often possible to detect abnormalities in the milk or the inclusion of the milk from a diseased cow. An inspection of the herd and premises from which the milk was dispatched is then made and the cause of the complaint investigated.

In the sampling of milk for chemical analysis under the new Regulations which came into force in September, 1925, viz., the 3rd Schedule of the Milk and Dairies (Consolidation) Act, Sec. 6, if a sample of milk is taken for analysis under the Sale of Food and Drugs Act the owner may appeal to the Local Authority within 60 hours for a sample of milk to be taken from his cows. The Inspector of the Local Authority who takes the sample at the dairy may take any steps he thinks necessary to satisfy him that the sample is a fair one of the milk when the cows are properly and fully milked. These samples are known as "appeal to the cow" samples. They are of value in arriving at a decision as to the genuineness or otherwise of the original sample taken which was below standard. A notice requesting an appeal to the cow may be made by dairymen each time their milk is sampled for chemical analysis.

In this connection 10 visits were made by the Assistant Veterinary Inspectors in company with the Food and Drugs Inspector. The cows were examined at the completion of each milking and certificates given that the cows were properly milked when the appeal to the cow sample was taken.

CORPORATION STUD.

During the year 40 visits were paid to examine and treat horses in Corporation stables.

MOTOR CAR SERVICE.

Motor cars were hired from the Central Motor Garage during the year at a cost of £810 2s. 7d. for 2,000½ hours, the distance travelled being 15,137 miles. This represents a charge of 1/- per mile or 8/1 per hour. In addition taxicabs were hired at a cost of £21 1s. 7d.

MEAT INSPECTION.

MARKETS, SHOPS, SLAUGHTERHOUSES AND STORES.

In this connection the weekly live-stock markets at Wadsley Bridge and Furnival Road were attended by Inspectors of the Department for the inspection of live animals and the issue of licences under the Diseases of Animals Acts.

The slaughter-houses, meat and fish markets and cold stores were regularly inspected, the total number of visits paid being 7,969 to slaughter-houses, 3,513 to the market places, shambles, shops, stores, etc.

The number of slaughter-houses in use last year was 159, 41 of which belong to the Corporation and are let out to butchers. Of the 118 private slaughter-houses 84 are licensed annually under the Sheffield Corporation (Consolidation) Act, 1918. In addition there are three licensed horse slaughter-houses and one place licensed as a knacker's yard.

In addition to the above, a number of earcases of fresh meat slaughtered outside the City boundary are brought into the City.

The Public Health (Meat) Regulations, 1924, were enforced, and judgment of unsound meat was carried out on the lines of the recomendations laid down in Memo. 62, Foods for Condemnation, under the Public Health Act, 1875.

The following diseased or suspected animals and careases were brought into No. 25 Shambles (the slaughter-house set apart by the Corporation for the slaughter of diseased or suspected animals and as a detention room for such meat):—931½ careases of beef, of which 201 were condemned; 78 careases of mutton, 66 of which were condemned; 38 careases of pork, 14½ being condemned; 75 carcases of yeal, 43 of which were condemned.

The total amount of diseased meat, offals, fish, and unsound food condemned during the year was as follows:—

Meat.—105 tons 11 cwts. 3 grs.

Fish.— 20 ,, 3 ,, 3 ,,

Preserved food.—1,235 tins of eanned goods.

Game, etc.—1 brace of pheasants, 2 brace partridges, $12\frac{1}{2}$ brace wood pigeons, 9 fowls, 4 hares, 8 crates turkeys, 8 geese, 531 couples rabbits.

Eggs, etc.—992 $\frac{1}{2}$ doz. eggs, 11 lbs. liquid eggs.

Fruit and Vegetables.—233 chips tomatoes, 18 boxes pears, 14 boxes and 8 gallons apples, 8 bags potatoes, 1 truck swedes, 86 kits sprouts, 70 baskets lettuce, 7 crates asparagus.

In carrying out the inspection of the above meat and other foods a large number of bacteriological examinations of specimens were earried out in the laboratory.

Estimated number of animals slaughtered annually in the Shambles and private slaughter-houses for the City's fresh meat supply:

No. and Class	Average	
of Animals	Weight	Total Weight
35,464 cattle	47 st.	10,412 tons 16 ewts.
90,844 sheep	66 lbs.	2,554 ,, 19 ,,
47,892 pigs	15 st.	4,489 ,, 7 ,,
4,680 calves	56 lbs.	117 ,,

The estimated weight of imported meat, comprising frozen and chilled meat, brought into the City shops was equal to that of the fresh meat supply.

INSPECTION OF HORSES AND CARCASES FOR EXPORTATION ABROAD.

Number of horses submitted for examination	 	778
Number of careases passed for food	 	772
Number of carcases condemned unfit for food	 	6
Number of earcases exported abroad	 	772
Number of visits paid to horse slaughter-houses	 	261
Number of horse slaughter-houses	 	3

All condemned food stuffs are sent to the Corporation Destructor where they are either dealt with for salvage purposes or destroyed by burning.

PUBLIC HEALTH ACT.

All diseased meat, etc., inspected and condemned was submitted to inspection or surrendered by the owners, with three exceptions only.

	Pro	SECUTI	ons.						
Milk and Dairies Order, 1926									
Failing to wash churns before return to senders,					lefenda	nts 5/	- eac	h	
do.	do.			1	,,	2/6	3 ,,		
Regulation of Movement of Swine Order							£	s.	d.
Movement of pigs without	t Licence				• • •		2	0	0
do.	do.						0	5	0
Failing to isolate pigs moved on Licence						• • •	0	5	0
do.	do.		•••	•••			1	0	0
do.	do.		•••	•••		•••	Dismissed		
Public Health (Meat) Regulation	ns								
Having diseased meat on	his prem	ises		•••			20	0	0
Depositing diseased meat							10	0	0
Offering unsound meat for	or sale	•••	•••	•••	•••	• • •	5	0	0
Sale of Food Order									
Failure to mark imported	d meat				•••	•••	2	0	0

Movement of Animals (Records) Order

Failing to keep register, 2 defendants 5/- each.

My thanks are due to the members of the Staff for the willing assistance they have given me in the work during the year, and also the Chief Constable and Police for the assistance they have rendered.

J. S. LLOYD, F.R.C.V.S., D.V.S.M. (Vict.),

Chief Veterinary Inspector.